

4. Surface meteorological data during oversnow traverses

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Meteorological observations were carried out during the oversnow traverses several times a day. We measured air pressure (Pa), air temperature (Ta), wind direction (WD) and wind speed (WS) with the instruments and observed visibility (V), weather (W), hydrometeors (Hydro), cloud amount in tenths (N), individual cloud amount and types (CL) and atmospheric phenomena. The instruments and accuracy of the measurements are given in Table 4-1 and 4-2. The notation used in this section is shown in Table 4-3. In case of using portable instruments, “*” was added to the right of the data.

Tables 4-4, 4-5, 4-6, 4-7 4-8 and 4-9 show meteorological data observed during traverses 1-a, 2, 4, 5, 6 and 7, respectively.

Table 4-1. Instruments and accuracy of meteorological observations.

Item	Instrument	Accuracy
Air pressure	Aneroid gauge	$\pm 0.1\text{hPa}$
Air temperature	Platinum resistance	$\pm 0.1^{\circ}\text{C}$
Wind direction	Magnetic compass	$\pm 5^{\circ}$
Wind speed	3-cup anemometer	$\pm 0.1\text{m/s}$
Visibility	Visual observation	
Cloud amount	Visual observation	
Weather	Visual observation	
Individual	Visual observation	

Table 4-2. Portable instruments and accuracy of meteorological observations.

(“*” is added to the right of the data)

Item	Instruments	Accuracy
Air pressure	Aneroid gauge	$\pm 1\text{hPa}$
Air temperature	Sling type glass thermometer	$\pm 0.5^{\circ}\text{C}$
Wind direction	Magnetic compass	$\pm 5^{\circ}$
Wind speed	Portable 3-cup anemometer	$\pm 0.5\text{m/s}$
Visibility	Visual observation	
Cloud amount	Visual observation	
Weather	Visual observation	
Individual cloud	Visual observation	

Table 4-3. Notation used in tables in this section.

LT	Local standard time at Syowa station (UTC + 3 hours)
Pa	Air pressure (hPa)
Ta	Air temperature ($^{\circ}\text{C}$)
WD	Wind direction in 16directions
WS	Wind speed (m/s)
V	Visibility (km)
W	Weather ○ Clear, ① Fine, ② Cloudy (upper cloud are predominant) ⊙ Cloudy, ✕ Snow, ↗ Drifting snow, ↘ Blowing snow ✕+ Snow storm, ↔ Diamond dust, ≡ Ice fog, ≡ Fog, (≡) Partially fog
N	Cloud amount in tenth
CL	Individual cloud amount and genus
AP	Atmospheric phenomenon

Table 4-4. Meteorological data observed during traverse 1-a.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
23 Dec. 1997	10:00	S16	940 *	-3.6 *		7 *					
23 Dec. 1997	14:40	S30	889 *	-2.5 *		4 *					
23 Dec. 1997	19:00	H68	869 *	-7.0 *		3 *					
24 Dec. 1997	8:30	H68	875 *	-8.0 *		4 *					
24 Dec. 1997	12:10	H68	875 *	-5.0 *		4 *					
24 Dec. 1997	18:45	H160	831 *	-10.5 *		3 *					
25 Dec. 1997	7:00	H160	836 *	-12.5 *		5 *					
25 Dec. 1997	13:10	H240	812 *	-6.0 *		3 *					
25 Dec. 1997	20:10	S122	790 *	-11.0 *		3 *					
26 Dec. 1997	7:00	S122	795 *	-12.5 *		6 *					
26 Dec. 1997	13:00	Z40	775 *	-10.0 *		6 *					
26 Dec. 1997	19:50	Mizuho	761 *	-16.0 *		7 *					
27 Dec. 1997	7:00	Mizuho	763 *	-17.5 *		7 *					
27 Dec. 1997	15:00	Mizuho	763 *	-12.5 *		7 *					
27 Dec. 1997	18:30	Mizuho	764 *	-14.0 *		3 *					
28 Dec. 1997	7:00	Mizuho	761 *	-14.0 *		3 *					
28 Dec. 1997	20:30	Mizuho	760 *	-16.0 *		3 *					
29 Dec. 1997	7:00	Mizuho	761 *	-19.0 *		8 *					
29 Dec. 1997	13:00	MD24	752 *	-12.0 *		6 *					
29 Dec. 1997	19:00	MD56	740 *	-15.5 *		4 *					
30 Dec. 1997	6:45	MD56	761 *	-19.0 *		8 *					
30 Dec. 1997	13:00	MD80	732 *	-11.5 *		4 *					
30 Dec. 1997	21:00	MD120	712 *	-17.0 *		8 *					
31 Dec. 1997	6:50	MD120	725 *	-21.0 *		9 *					
31 Dec. 1997	12:30	MD160		-14.0 *		8 *					
31 Dec. 1997	19:00	MD180		-18.0 *		8 *					
1 Jan. 1998	11:30	MD180		-12.5 *		14 *					
1 Jan. 1998	19:30	MD226		-18.0 *		11 *					
2 Jan. 1998	7:00	MD226		-20.5 *		9 *					
2 Jan. 1998	12:30	MD260		-15.5 *		10 *					
2 Jan. 1998	18:00	MD286		-18.0 *		9 *					
3 Jan. 1998	7:00	MD286		-21.5 *		10 *					
3 Jan. 1998	12:30	MD320		-19.0 *		10 *					
3 Jan. 1998	19:00	MD364		-21.5 *		5 *					
4 Jan. 1998	11:00	MD364		-21.0 *		7 *					
4 Jan. 1998	19:00	MD364		-21.0 *		5 *					
5 Jan. 1998	7:00	MD364		-27.0 *		3 *					
5 Jan. 1998	13:00	MD394		-20.5 *		5 *					
5 Jan. 1998	19:00	MD440		-22.5 *		2 *					
6 Jan. 1998	7:00	MD444		-22.5 *		3 *					
6 Jan. 1998	12:30	MD486		-21.5 *		3 *					
6 Jan. 1998	19:30	MD544		-25.5 *		4 *					
7 Jan. 1998	7:00	MD544		-31.0 *		4 *					
7 Jan. 1998	12:30	MD584		-27.0 *		4 *					
7 Jan. 1998	18:00	MD634		-27.5 *		5 *					
8 Jan. 1998	5:45	MD634		-34.5 *		4 *					

Table 4-5. Meteorological data observed during traverse 2.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
3 Sep. 1998	1800	S16		-32.0 *	NE	7 *		⊕			
4 Sep. 1998	1200	S16	910 *	-16.5 *	E	14 *					+
4 Sep. 1998	1500	S16	905 *	-13.7 *	NE	15 *					+
4 Sep. 1998	1800	S16	902 *	-11.5 *	NE	18 *					+
5 Sep. 1998	900	S16	901 *	-10.2 *	NE	17 *					+
5 Sep. 1998	1200	S16	905 *	-10.3 *	NE	13 *					+
5 Sep. 1998	1500	S16	909 *	-10.2 *	NE	13 *					+
5 Sep. 1998	1800	S16	909 *	-10.7 *	NE	13 *					+
6 Sep. 1998	745	S16	921 *	-13.7 *	E	11 *		⊕			
6 Sep. 1998	1315	S20	905 *	-12.7 *	NE	15 *					+
6 Sep. 1998	1500	S20	904 *	-12.3 *	E	15 *					+
6 Sep. 1998	1800	S20	903 *	-12.4 *	E	17 *					+
7 Sep. 1998	900	S20	900 *	-11.1 *	E	18 *					+
7 Sep. 1998	1200	S20	903 *	-10.9 *	E	13 *					+
7 Sep. 1998	1500	S20	903 *	-11.5 *	E	14 *					+
7 Sep. 1998	1800	S20	901 *	-12.5 *	E	13 *					+
8 Sep. 1998	700	S20	902 *	-16.5 *	E	12 *		⊕			
8 Sep. 1998	1300	H72	841 *	-21.5 *	E	11 *		⊕			
8 Sep. 1998	1545	H72	841 *	-22.5 *	E	9 *		⊕			
8 Sep. 1998	1900	H72	842 *	-25.1 *	E	8 *		⊕			
9 Sep. 1998	900	H72	846 *	-28.5 *	E	9 *	15	⊕			
9 Sep. 1998	1200	H72	849 *	-27.3 *	E	8 *	15	⊕			
9 Sep. 1998	1500	H72	849 *	-27.5 *	E	6 *	15	⊙			
9 Sep. 1998	1800	H72	850 *	-30.3 *	E	7 *	15	⊕			
9 Sep. 1998	2100	H72	851 *	-32.4 *	E	6 *	15	⊕			
10 Sep. 1998	900	H72	852 *	-34.3 *	E	7 *		⊕			
10 Sep. 1998	1220	H72	851 *	-32.3 *	E	7 *		○			
10 Sep. 1998	1500	H72	849 *	-33.6 *	E	7 *		○			
10 Sep. 1998	1800	H72	851 *	-35.8 *	E	8 *		○			
10 Sep. 1998	2100	H72	849 *	-36.3 *	E	9 *		○			
11 Sep. 1998	900	H72	849 *	-33.5 *	E	12 *		○			
11 Sep. 1998	1500	H72	845 *	-32.0 *	E	10 *		○			
11 Sep. 1998	2100	H72	842 *	-39.8 *	E	12 *		○			
12 Sep. 1998	900	H72	843 *	-36.8 *	ENE	11 *		○			
12 Sep. 1998	1500	H72	839 *	-32.5 *	ENE	10 *		⊙			
12 Sep. 1998	2100	H72	842 *	-32.2 *	ENE	12 *		⊕			
13 Sep. 1998	900	H72	840 *	-33.0 *	ENE	8 *		⊕			
13 Sep. 1998	1500	H72	842 *	-28.2 *	ENE	11 *		⊕			
13 Sep. 1998	2100	H72	840 *	-27.9 *	ENE	15 *		⊕			
14 Sep. 1998	900	H72	829 *	-21.2 *	E	18 *	0.05	+			+
14 Sep. 1998	1430	H72	821 *	-17.4 *	E	25 *	0.05	+			+
14 Sep. 1998	2200	H72	823 *	-27.7 *	ENE	16 *					+
15 Sep. 1998	830	H72	831 *	-27.2 *	E	20 *					+
15 Sep. 1998	1430	H72	841 *	-24.9 *	ENE	13 *	0.05	+			+
15 Sep. 1998	2030	H72	842 *	-27.5 *	E	12 *		⊕			
16 Sep. 1998	900	H72	839 *	-24.8 *	E	9 *		⊙			
16 Sep. 1998	1530	H72	833 *	-17.4 *	ENE	6 *		⊙			

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
16 Sep. 1998	2030	H72	834 *	-20.5 *	E	6 *		①			
17 Sep. 1998	830	H72	838 *	-20.5 *	ENE	8 *		⊙			
17 Sep. 1998	1530	H72	840 *	-21.5 *	ENE	2 *		✕			✕
17 Sep. 1998	2100	H72	841 *	-31.5 *	ENE	3 *		○			
18 Sep. 1998	830	H72	841 *	-21.5 *	ENE	8 *		⊙			
18 Sep. 1998	1930	H72	842 *	-23.6 *	NE	9 *		✕			✕
19 Sep. 1998	830	H72	835 *	-19.4 *	ENE	20 *					✕
19 Sep. 1998	1500	H72	832 *	-16.0 *	ENE	22 *					✕
20 Sep. 1998	830	H72	832 *	-16.0 *	ENE	13 *		⊙			
20 Sep. 1998	2100	H72	840 *	-17.3 *	ENE	12 *		⊙			
21 Sep. 1998	830	H72	842 *	-20.4 *	ENE	15 *		⊙			
21 Sep. 1998	2100	H72	837 *	-20.8 *	ENE	17 *		⊙			
22 Sep. 1998	830	H72	838 *	-23.4 *	ENE	13 *		⊙			
22 Sep. 1998	2100	H72	842 *	-24.8 *	E	8 *		①			
23 Sep. 1998	830	H72	842 *	-28.2 *	E	8 *		○			
23 Sep. 1998	1820	H20	852 *	-27.2 *	E	7 *		○			
23 Sep. 1998	2100	H20	851 *	-28.5 *	E	7 *		○			
24 Sep. 1998	700	H20	846 *	-31.5 *	E	7 *		○			

Table 4-6. Meteorological data observed during traverse 4.

Date	LT	Station	Pa		Ta	WD	WS	V	W	N	CL	AP
7 Nov. 1998	1800	S16	910	*	-8.1	*		10	✕	10 -	0+Sc,9Ac,Xci	✕
7 Nov. 1998	2100	S16	908	*	-11.1	*	ENE 2	6	✕	10 -	3Ac,10-Ci	✕
8 Nov. 1998	900	S16	905	*	-9.4	*	NE 10	0.2	†	10 -	8†,Xci	†
8 Nov. 1998	1200	S16	905	*	-8.8	*	NE 13	0.2	†	10 -	10-Ci	†
8 Nov. 1998	1500	S25	872	*	-10.2	*	ENE 11	0.3	†	10 -	10-Ci	†
8 Nov. 1998	1815	H51	842	*	-13.7	*	ENE 9	2	☉	10 -	0+Sc,9Ac,Xci	†
8 Nov. 1998	2100	H51	841	*	-16.6	*	ENE 7	10	☉	10 -	0+Sc,4Ac,10-Ci	
9 Nov. 1998	900	H64	841	*	-15.0	*	E 5	30	☉	10 -	10-Ci	
9 Nov. 1998	1200	H68	841	*	-13.5	*	ENE 3	30	☉	10 -	10-Ci	
9 Nov. 1998	1500	H72	842	*	-14.0	*		30	☉	8	8Ci	
9 Nov. 1998	1800	H72	844	*	-14.0	*		30	☉	3	3Ci	
9 Nov. 1998	2040	H72	839.7		-21.1		5.9	30	☉	2	0+Sc,1Ac,1Ci	
10 Nov. 1998	620	H72			-23.7	*	E 3	30	○	0 +	0+Ac	
10 Nov. 1998	1800	H72	841.4		-18.7		ENE 1.6	30	○	1	0+Ac,1Ci	
10 Nov. 1998	2100	H72	839.5		-19.5		ENE 9.8	30	☉	10 -	10-Ac	
10 Nov. 1998	2400	H72	838.1		-21.2		7.7					
11 Nov. 1998	300	H72	834.8		-19.2		10.8					
11 Nov. 1998	600	H72	830.8		-16.3		11.4					
11 Nov. 1998	900	H72	826.8		-14.2		ENE 13.5	0.08	✕	10	10†	†
11 Nov. 1998	1200	H72	822.3		-13.3		ENE 12.8	0.08	✕	10	10†	†
11 Nov. 1998	1500	H72	818.8		-12.6		E 11.9	0.1	✕	10	10†	†
11 Nov. 1998	1800	H72	816.2		-13.5		ENE 12.4	0.1	✕	10	10†	†
11 Nov. 1998	2100	H72	814.9		-14.9		17.8	0.01	✕	10	10†	†
12 Nov. 1998	300	H72	817.6		-16.0		16.4					
12 Nov. 1998	600	H72	818.6		-16.2							
12 Nov. 1998	900	H72					ENE	0.01	✕	10	10†	†
12 Nov. 1998	1200	H72					ENE	0.01	✕	10	10†	†
12 Nov. 1998	1500	H72					ENE	0.01	✕	10	10†	†
12 Nov. 1998	1800	H72					ENE	0.03	†	10	10†	†
12 Nov. 1998	2400	H72	832.0		-17.5		11.4					
13 Nov. 1998	1810	H72	835.1		-15.7		NE 2.6	20	☉	9	0+Sc,9Ac	
13 Nov. 1998	2100	H72	834.3		-21.3		NE 3.2		☉	2	2Ac,0+Ci	
13 Nov. 1998	2400	H72	834.0		-24.5		7.0					
14 Nov. 1998	300	H72	833.7		-25.0		8.5					
14 Nov. 1998	600	H72	832.5		-23.3		8.6					
14 Nov. 1998	900	H72	831.6		-19.3		ENE 6.8	30	○	0	-	
14 Nov. 1998	1200	H72	831.6		-15.6		E 4.5	30	○	0	-	
14 Nov. 1998	1500	H72	831.8		-13.8		NE 4.5	30	○	0	-	
14 Nov. 1998	1800	H72	832.1		-16.8		ENE 1.0	30	○	0 +	0+Ci	
14 Nov. 1998	2100	H72	832.5		-20.5		ENE 6.8	30	○	0 +	0+Ci	†
14 Nov. 1998	2400	H72	834.8		-23.2		7.9					
15 Nov. 1998	300	H72	836.0		-23.0		10.7					
15 Nov. 1998	600	H72	837.2		-21.5		10.2					
15 Nov. 1998	900	H72	837.6		-18.1		ENE 9.2	30	○	1	1Ci	†
15 Nov. 1998	1200	H72	838.1		-15.6		ENE 8.3	30	☉	8	8Ci	†
15 Nov. 1998	1500	H72	838.1		-15.4		ENE 8.6	30	☉	10 -	10-Ci	†
15 Nov. 1998	1800	H72	838.2		-16.9		ENE 6.6	30	☉	10 -	10-Ci	†
15 Nov. 1998	2100	H72	838.5		-19.8		ENE 8.2	30	☉	10 -	10-Ci	†
15 Nov. 1998	2400	H72	839.9		-20.8		10.4					
16 Nov. 1998	300	H72	840.5		-21.0		10.9					

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
16 Nov. 1998	600	H72	840.3	-19.5		9.8					
16 Nov. 1998	900	H72	839.1	-16.8	ENE	9.4	10	⊕	10 -	10-Ci	+
16 Nov. 1998	1200	H72	838.5	-14.4	ENE	9.5	6	⊕	10 -	0+Ac,10-Ci	+
16 Nov. 1998	1500	H72	837.5	-13.3	ENE	9.2	5	⊕	10 -	0+Ac,10-Ci	+
16 Nov. 1998	1800	H72	836.4	-14.3	ENE	9.7	5	⊕	10 -	1Ac,10-Cs	+
16 Nov. 1998	2100	H72	835.9	-16.1	ENE	10.2	6	⊕	10 -	4Ac,9Cs	+
16 Nov. 1998	2400	H72	836.2	-18.3		11.3					
17 Nov. 1998	300	H72	835.1	-18.4		11.5					
17 Nov. 1998	600	H72	833.5	-17.2		13.0					
17 Nov. 1998	900	H72	841.4	-14.5 *	E	13 *	0.5	+	10 -	3Ac,5Cs,4Ci	+
17 Nov. 1998	1230	H128	808.3	-15.2 *	E	14 *	0.7	+	10 -	5Ac,10-Ci	+
17 Nov. 1998	1500	H156	798.3	-15.0 *	E	13 *	0.5	+	10 -	3Ac,10-Ci	+
17 Nov. 1998	1900	H210	781.8	-18.4	ENE	13.8	0.3	+	10 -	3Ac,10-Ci	+
17 Nov. 1998	2100	H210			ENE	14.0	0.3	+	10 -	1Ac,10-Ci	+
17 Nov. 1998	2400	H210		12.4							
18 Nov. 1998	300	H210		12.0							
18 Nov. 1998	600	H210		12.3							
18 Nov. 1998	900	H212		-18.0 *	E	9 *	2	⊕	10 -	0+SC,2Ac,10-Ci	+
18 Nov. 1998	1215	H280		-16.7 *	E	5 *	5	⊕	10 -	0+Ac,10-Ci	+
18 Nov. 1998	1510	Z6		-17.0 *	ENE	13 *	3	⊕	10 -	0+Ac,10-Ci	+
18 Nov. 1998	1910	Z21	752.5	-20.9	E	10.6	5	⊕	10 -	1Ac,10-Ci	+
18 Nov. 1998	2100	Z21	748.1	-23.2	E	10.4	5	⊕	10 -	1Ac,10-Ci	+
18 Nov. 1998	2400	Z21	750.5	-26.1		10.3					
19 Nov. 1998	300	Z21	752.1	-26.1		10.0					
19 Nov. 1998	600	Z21	753.0	-24.5		11.5					
19 Nov. 1998	900	Z24		-29.0 *	E	10 *	3	⊕	2	0+Sc,1Ac,1Ci	+
19 Nov. 1998	1230	Z68		-19.0 *	E	12 *	8	⊕	2	0+Ac,2Ci	+
19 Nov. 1998	1510	Z88		-19.0 *	E	10 *	8	⊙	1	0+Ac,1Ci	+
19 Nov. 1998	1800	Mizuho		-21.0 *	E	8 *	20	⊙	1	0+Ac,1Ci	+
19 Nov. 1998	2100	Mizuho	738.1	-24.6	ESE	10.2	15	⊙	0 +	0+Ci	+
19 Nov. 1998	2400	Mizuho	738.8	-28.1		11.5					
20 Nov. 1998	300	Mizuho	739.9	-29.6		11.3					
20 Nov. 1998	600	Mizuho	739.7	-27.6		11.4					
20 Nov. 1998	900	Mizuho	742.9	-23.0 *	E	11 *	20	⊙	0 +	0+Ac,0+Ci	+
20 Nov. 1998	1200	Mizuho	738.6	-20.2 *	ESE	10 *	30	⊙	0 +	0+Ac	+
20 Nov. 1998	1500	MD16		-19.0 *	E	10 *	30	⊙	0 +	0+Ac	+
20 Nov. 1998	1940	MD30			E		30	⊕	3	1Ac,2Ci	
20 Nov. 1998	2100	MD30	726.3	-24.0	E	8.0	30	⊕	8	1Ac,8Ci	
20 Nov. 1998	2400	MD30	727.1	-25.0		8.6					
21 Nov. 1998	300	MD30	728.0	-22.5		8.6					
21 Nov. 1998	600	MD30	728.5	-21.0		9.5					
21 Nov. 1998	900	MD32	731.6	-17.9 *	E	9 *	0.6	✕	10 -	10-Ac	+
21 Nov. 1998	1210	MD44	727.3	-16.8 *	E	8 *	0.7	✕	10 -	7Ac,10-Ci	+
21 Nov. 1998	1500	MD52	729.4	-16.7 *	ENE	8 *	0.8	✕	10 -	4Ac,10-Ci	+
21 Nov. 1998	1940	MD68	723.2	-19.6	ENE	5.9	20	⊕	10 -	3Ac,10-Ci	+
21 Nov. 1998	2100	MD68	723.5	-21.6	E	4.5	20	✕	10 -	3Ac,10-Ci	+
21 Nov. 1998	2400	MD68	724.5	-22.9		5.4					
22 Nov. 1998	300	MD68	724.7	-25.6		6.1					
22 Nov. 1998	600	MD68	724.3	-23.1		6.7					
22 Nov. 1998	900	MD70		-18.2 *	E	7 *		⊙	10 -	10-Ac	+
22 Nov. 1998	1240	MD90		-18.1 *	E	11 *	0.6	+	9	9+	+
22 Nov. 1998	1500	MD104		-19.8 *	E	11 *	0.4	+	7	7+	+

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
22 Nov. 1998	1930	MD124	704.9	-23.0	E	9.6	2	○	1	1Ci	+
22 Nov. 1998	2100	MD124	704.9	-24.4	ESE	8.9	3	○	0 +	0+Ci	+
22 Nov. 1998	2400	MD124	704.5	-27.8		10.4					
23 Nov. 1998	300	MD124				12.3					
23 Nov. 1998	900	MD126	701.1	-23.7 *	ESE	13 *	0.5	+	10 -	10-Ci	+
23 Nov. 1998	1230	MD148	691.9	-19.6 *	ESE	11 *	0.7	+	10 -	10-Ci	+
23 Nov. 1998	1510	MD156	688.3	-21.0 *	ESE	13 *	0.4	✕	10	10+	+
23 Nov. 1998	1940	MD174	681.3	-25.6	ESE	9.2	0.7	+	5	0+Ac,5Ci	+
23 Nov. 1998	2100	MD174	680.9	-26.8	ESE	8.1	5	⊕	10 -	10-Ci	+
23 Nov. 1998	2400	MD174	680.7	-27.5		7.7					
24 Nov. 1998	300	MD174	680.9	-28.0		7.1					
24 Nov. 1998	600	MD174	681.5	-27.7		8.5					
24 Nov. 1998	910	MD176	684.8	-25.2 *	ESE	9 *	2	⊕	9	9Ci	+
24 Nov. 1998	1230	MD198	675.3	-22.3 *	ESE	11 *	0.4	+	10	10Cs	+
24 Nov. 1998	1500	MD214	670.6	-22.5 *	E	10 *	0.6	+	10 -	10-Ci	+
24 Nov. 1998	1940	MD238	665.1	-25.0	ESE	9.8	0.5	+	10 -	10-Ci	+
24 Nov. 1998	2100	MD238			ESE		0.3	+	10	10+	+
25 Nov. 1998	1500	MD238		-23.0 *	ESE	18 *	0.01	✕	10	10+	+
25 Nov. 1998	1930	MD238		-24.5	ESE	14 *	0.1	✕	10	10+	+
25 Nov. 1998	2130	MD238		-25.4	ESE	14 *	0.2	✕	10	10+	+
26 Nov. 1998	900	MD240		-22.5 *	ESE	10 *	0.2	+	10 -	10-Ci	+
26 Nov. 1998	1200	MD260		-21.5 *	ESE	11 *	0.2	+	10 -	10-+,XCi	+
26 Nov. 1998	1510	MD274		-21.5 *	ESE	9 *	0.5	+	10 -	10-Ci	+
26 Nov. 1998	1920	MD294		-23.7 *	ESE	8 *	0.8	+	10 -	10-Ci	+
26 Nov. 1998	2100	MD294		-26.6 *	E	6 *	10	⊕	10 -	2Ac,9Ci	+
26 Nov. 1998	2400	MD294	645.8								
27 Nov. 1998	300	MD294	647.0								
27 Nov. 1998	600	MD294	647.6								
27 Nov. 1998	900	MD300	648.6	-25.7 *	ESE	6 *	10	⊕	8	8Ci	+
27 Nov. 1998	1230	MD324	643.9	-22.3 *	E	7 *	1	✕	10 -	0+Sc,3Ac,9Ci	+
27 Nov. 1998	1500	MD342	639.9	-22.3 *	E	8 *	1.5	⊕	10 -	2Ac,10-Ci	+
27 Nov. 1998	1920	MD364	632.7	-24.1	E	6.5	2	⊕	10 -	1Ac,10-Ci	+
27 Nov. 1998	2100	MD364	633.1	-26.3	E	5.6	2	⊕	10 -	0+Ac,10-Ci	+
27 Nov. 1998	2400	MD364	634.4	-28.4	E	7.3					
28 Nov. 1998	300	MD364	635.2	-30.3		6.9					
28 Nov. 1998	600	MD364	635.2	-30.2		7.3					
28 Nov. 1998	900	MD366	638.5	-29.0 *	E	8 *	1	⊕	10 -	10-Ci	+
28 Nov. 1998	1230	MD396	628.5	-24.9 *	ENE	10 *	0.5	✕	10 -	2Ac,10-Ci	+
28 Nov. 1998	1500	MD414	626.1	-24.5 *	ENE	9 *	0.5	✕	10 -	2Ac,10-Ci	+
28 Nov. 1998	2100	MD442			E		1.5	⊕	10 -	0+Ac,10-Ci	+
29 Nov. 1998	900	MD442	623.1	-29.5	E	10.7	0.5	+	3	3Ci	+
29 Nov. 1998	1200	MD442	622.6	-28.0	E	12.1	0.3	+	1	1Ci	+
29 Nov. 1998	1500	MD442			E		0.5	+	0	-	+
29 Nov. 1998	1800	MD442			E		0.8	+	0	-	+
29 Nov. 1998	2100	MD442			E	9.2	0.5	+	0	-	+
29 Nov. 1998	2400	MD442		8.7							
30 Nov. 1998	300	MD442		7.7							
30 Nov. 1998	600	MD442		7.7							
30 Nov. 1998	900	MD448		-30.0 *	ESE	7 *	15	○	1	1Ci	+
30 Nov. 1998	1230	MD478		-27.0 *	ESE	9 *	15	○	0 +	0+Ci	+
30 Nov. 1998	1510	MD502		-23.5 *	SE	6 *	20	○	0 +	0+Ci	+
30 Nov. 1998	1930	MD532			SE	7.2	20	○	1	1Ci	

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
30 Nov. 1998	2100	MD532	615.2	-33.3	ESE	6.2	30	⊕	10 -	10-Ci	
30 Nov. 1998	2400	MD532	615.7	-38.2		5.5					
1 Dec. 1998	300	MD532	618.4	-41.0		5.6					
1 Dec. 1998	600	MD532	618.6	-40.2		6.0					
1 Dec. 1998	900	MD534	622.3	-36.7 *	SE	7 *	0.8	+	0 +	0+Ci	+
1 Dec. 1998	1210	MD570	615.2	-33.7 *	SE	6 *	1.5	⊕	7	7Ci	+
1 Dec. 1998	1500	MD592	615.2	-32.5 *	ESE	6 *	5	⊕	7	7Ci	+
1 Dec. 1998	1910	MD628	614.1	-36.0	SE	4.1	30	○	1	1Ci	+
1 Dec. 1998	2140	MD628	612.8	-40.2	SSE	3.0	30	⊕	10 -	10-Ci	→
1 Dec. 1998	2400	MD628	613.6	-43.6		2.6					
2 Dec. 1998	300	MD628	614.9	-44.3		3.9					
2 Dec. 1998	600	MD628	615.1	-40.7		3.6					
2 Dec. 1998	900	MD634	618.0	-34.5 *	SSE	6 *	15	○	0	-	→
2 Dec. 1998	1200	MD672	612.0	-31.4 *	SSE	7 *	30	○	0 +	0+Ci	
2 Dec. 1998	1500	MD696	611.0	-30.3 *	SSE	8 *	30	○	0 +	0+Ci	
2 Dec. 1998	1910	Dome F	603.9	-33.3 *	SSE	4 *	30	○	0 +	0+Ci	
2 Dec. 1998	2110	Dome F	605.8	-35.5 *	SSE	3 *	30	○	1	1Ci	
2 Dec. 1998	2400	Dome F	605.3								
3 Dec. 1998	900	Dome F	601.7	-34.8 *	ESE	5 *	30	○	0	-	→
3 Dec. 1998	1200	Dome F	599.7	-32.3 *	SSE	8 *	6	○	0	-	+
3 Dec. 1998	1500	Dome F	598.4	-31.4 *	SE	10 *	0.5	+	10	10+	+
3 Dec. 1998	1930	Dome F	600.1	-35.2	ESE	6.7	0.9	+	10 -	10-Ci	+
3 Dec. 1998	2100	Dome F	600.1	-37.0	ESE	4.9	5	⊕	2	2Ci	+
3 Dec. 1998	2400	Dome F	600.0	-41.1		4.3					
4 Dec. 1998	300	Dome F	600.5	-42.1		4.4					
4 Dec. 1998	600	Dome F	600.8	-40.6		5.1					
4 Dec. 1998	920	Dome F		-38.1	ESE	5.5	3	⊕	9	9Ci	+,→
4 Dec. 1998	1200	Dome F		-36.2	ESE	5.7	3	○	1	1Ci	+,→
4 Dec. 1998	1500	Dome F			ESE		5	○	0 +	0+Ci	+,→
4 Dec. 1998	1800	Dome F		-35.5 *	E	4 *	10	○	0	-	+,→
4 Dec. 1998	2100	Dome F			E		10	○	0 +	0+Ci	→
4 Dec. 1998	2400	Dome F	597.8	-44.1							
5 Dec. 1998	300	Dome F	596.8	-45.6		2.3					
5 Dec. 1998	600	Dome F	595.4	-43.2		2.9					
5 Dec. 1998	1000	Dome F	591.7	-37.6	E	4.7	10	○	1	1Ci	→
5 Dec. 1998	1200	Dome F	594.1	-35.4	ENE	5.6	5	○	1	1Ci	+,→
5 Dec. 1998	1500	Dome F	592.6	-34.5	E	4.7	15	○	0 +	0+Ci	→
5 Dec. 1998	1800	Dome F	590.4	-35.5	E	3.8	10	○	1	1Ci	→
5 Dec. 1998	2100	Dome F	590.4	-39.5	E	2.7	30	○	1	1Ci	
5 Dec. 1998	2400	Dome F	589.2	-43.9		2.3					
6 Dec. 1998	300	Dome F	589.5	-45.4		1.6					
6 Dec. 1998	600	Dome F	589.9	-43.3		1.7					
6 Dec. 1998	900	Dome F	590.7	-39.0	ENE	1.6	30	○	1	1Ci	
6 Dec. 1998	1200	Dome F	591.5	-35.3	NNE	3.5	30	⊕	3	0+Ac,3Ci	→
6 Dec. 1998	1500	Dome F	592.2	-34.2	NNE	3.5	30	⊕	5	5Ci	→
6 Dec. 1998	1800	Dome F		-35.1	N	2.2	30	⊕	5	5Ci	
6 Dec. 1998	2100	Dome F	593.8	-39.6	NNE	1.9	30	⊕	3	3Ci	→
6 Dec. 1998	2400	Dome F	594.7	-43.5		1.9					
7 Dec. 1998	300	Dome F	594.1	-44.8		1.4					
7 Dec. 1998	600	Dome F	594.5	-42.9		1.6					
7 Dec. 1998	900	Dome F	594.7	-38.0	WNW	1.2	30	⊕	4	4Ci	→
7 Dec. 1998	1200	Dome F	594.9	-33.4	NNW	1.8	30	⊕	4	4Ci	→

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
7 Dec. 1998	1500	Dome F	594.8	-32.8	WNW	3.3	30	⊕	9	9Ci	
7 Dec. 1998	1800	Dome F	595.1	-33.1	NW	1.6	30	⊕	10 -	10-Ci	
7 Dec. 1998	2100	Dome F	594.8	-36.8	NW	1.4	30	⊕	7	0+Ac,7Ci	
7 Dec. 1998	2400	Dome F	593.8	-41.5		1.2					
8 Dec. 1998	300	Dome F	594.3	-42.3		0.7					
8 Dec. 1998	600	Dome F	593.9	-41.1		0.4					
8 Dec. 1998	900	Dome F	593.7	-37.7	ESE	1.0	30	⊕	3	3Ci	↔
8 Dec. 1998	1200	Dome F	593.4	-34.7	ESE	1.7	30	⊕	3	3Ci	↔
8 Dec. 1998	1800	Dome F	593.8	-34.8	E	1.5	30	⊕	9	9Ci	
8 Dec. 1998	2100	Dome F			ESE	1.4	30	⊕	9	9Ci	
8 Dec. 1998	2400	Dome F	592.4	-43.5		1.7					
9 Dec. 1998	300	Dome F	592.2	-44.8		1.7					
9 Dec. 1998	600	Dome F	592.5	-42.1		1.4					
9 Dec. 1998	1000	Dome F	593.1	-35.8	ENE	2.0	25	⊕	10 -	10-Ci	↔
9 Dec. 1998	1200	Dome F	593.5	-33.8	ENE	2.7	30	⊕	7	7Ci	↔
9 Dec. 1998	1500	Dome F	593.7	-32.6	NE	2.5	30	⊕	6	6Ci	↔
9 Dec. 1998	1800	Dome F	594.1	-33.5	ENE	1.2	30	⊕	10 -	10-Ci	↔
9 Dec. 1998	2100	Dome F	594.2	-38.3	ENE	0.8	30	⊕	4	4Ci	↔
9 Dec. 1998	2400	Dome F	594.1	-41.5		0.3					
10 Dec. 1998	900	Dome F					30	○	1	1Ci	
10 Dec. 1998	1200	Dome F			ESE		30	⊕	2	2Ci	
10 Dec. 1998	1500	Dome F			ESE		30	⊕	3	3Ci	
10 Dec. 1998	1800	Dome F			SE		30	⊕	3	3Ci	
10 Dec. 1998	2100	Dome F		-37.7	ESE		30	○	1	1Ci	
10 Dec. 1998	2400	Dome F	591.1	-42.1		1.2					
11 Dec. 1998	300	Dome F	593.5	-43.6		1.4					
11 Dec. 1998	600	Dome F	593.5	-40.6		1.1					
11 Dec. 1998	900	Dome F	593.7	-36.1	SE	1.8	30	⊕	2	2Ci	↔
11 Dec. 1998	1200	Dome F	594.2	-33.2	SE	1.5	30	○	1	1Ci	↔
11 Dec. 1998	1500	Dome F	593.2	-33.3	SE	2.4	30	○	0 +	0+Ci	↔
11 Dec. 1998	1800	Dome F	593.2	-34.0	SSE	2.1	30	○	1	1Ci	↔
11 Dec. 1998	2100	Dome F	593.3	-37.6	S	0.8	30	○	1	1Ci	↔
11 Dec. 1998	2400	Dome F	592.8	-41.0		0.7					
12 Dec. 1998	300	Dome F	593.0	-43.3		1.1					
12 Dec. 1998	600	Dome F	593.2	-41.4		0.7					
12 Dec. 1998	900	Dome F	593.5	-36.6	S	1.4	30	○	1	1Ci	↔
12 Dec. 1998	1200	Dome F	593.2	-34.4	S	3.7	30	○	0 +	0+Ci	↔
12 Dec. 1998	1500	Dome F	593.3	-33.7	SSE	3.7	30	○	0 +	0+Ci	↔
12 Dec. 1998	1800	Dome F	594.4	-34.3	S	2.8	30	○	0 +	0+Ci	
12 Dec. 1998	2100	Dome F	593.9	-38.9	S	1.7	30	○	0 +	0+Ci	
12 Dec. 1998	2400	Dome F	593.7	-43.8		1.7					
13 Dec. 1998	300	Dome F	594.1	-45.4		1.8					
13 Dec. 1998	600	Dome F	594.5	-43.0		1.7					
13 Dec. 1998	900	Dome F	595.0	-37.1	SSE	3.0	30	○	0	-	
13 Dec. 1998	1200	Dome F	595.1	-34.2	SE	2.8	30	○	0 +	0+Ci	↔
13 Dec. 1998	1500	Dome F	594.9	-33.6	SE	3.0	30	⊕	8	8Ci	↔
13 Dec. 1998	1800	Dome F	595.6	-33.6	SE	2.1	30	○	1	1Ci	↔
13 Dec. 1998	2100	Dome F	597.0	-37.6	SE	1.5	30	○	1	1Ci	
13 Dec. 1998	2400	Dome F	596.0	-42.1		1.5					
14 Dec. 1998	300	Dome F	596.8	-43.5		1.3					
14 Dec. 1998	600	Dome F	597.2	-40.5		1.0					
14 Dec. 1998	900	Dome F	597.8	-35.2	SE	1.6	30	○	1	1Ci	↔

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
14 Dec. 1998	1200	Dome F	598.1	-33.8	ESE	1.7	30	⊕	2	2Ci	↔
14 Dec. 1998	1500	Dome F	598.4	-32.0	E	1.7	30	○	1	1Ci	↔
14 Dec. 1998	1800	Dome F	599.2	-32.6	E	0.8	20	⊕	3	0+Ac,3Ci	↔
14 Dec. 1998	2100	Dome F	600.5	-34.1	SE	0.3	30	○	0 +	0+Ac,0+Ci	
14 Dec. 1998	2400	Dome F	598.8	-36.7	---						
15 Dec. 1998	300	Dome F	599.7	-37.6		0.5					
15 Dec. 1998	600	Dome F	599.7	-38.5		0.5					
15 Dec. 1998	900	Dome F	599.9	-35.5	SSE	1.0	20	⊕	10 -	1Ac,10-Ci	↔
15 Dec. 1998	1200	Dome F	599.6	-32.0	SE	1.8	30	⊕	2	1Ac,1Ci	↔
15 Dec. 1998	1500	Dome F		-32.5	SSE	1.9	30	○	0 +	0+Ci	↔
15 Dec. 1998	1800	Dome F	600.6	-33.0	ESE	1.6	30	⊕	3	0+Ac,3Ci	↔
15 Dec. 1998	2100	Dome F	599.9	-36.6	SE	1.0	30	⊕	2	0+Ac,2Ci	
15 Dec. 1998	2400	Dome F	599.7	-42.1		0.9					
16 Dec. 1998	300	Dome F	600.2	-43.9		0.9					
16 Dec. 1998	600	Dome F	600.5	-41.3		0.5					
16 Dec. 1998	900	Dome F	601.1	-36.0	ENE	1.2	30	⊕	4	0+Ac,4Ci	↔
16 Dec. 1998	1200	Dome F	601.5	-34.2	NE	2.2	30	⊕	5	5Ci	↔
16 Dec. 1998	1500	Dome F	601.3	-33.0	NE	2.1	30	⊕	4	4Ci	↔
16 Dec. 1998	1800	Dome F	602.8	-33.8	NE	1.5	30	⊕	4	0+Ac,4Ci	↔
16 Dec. 1998	2100	Dome F	602.2	-38.1	E	1.0	30	○	1	1Ci	
16 Dec. 1998	2400	Dome F	601.6	-40.8		1.2					
17 Dec. 1998	300	Dome F	602.1	-42.4		0.7					
17 Dec. 1998	600	Dome F	602.3	-40.6		1.5					
17 Dec. 1998	900	Dome F	602.4	-36.3	ENE	2.2	30	⊕	10 -	10-Ci	↔
17 Dec. 1998	1200	Dome F	602.2	-33.7	E	3.4	30	⊕	9	9Ci	↔
17 Dec. 1998	1500	Dome F	601.6	-32.4	E	4.1	30	⊕	10 -	10-Ci	↔
17 Dec. 1998	1800	Dome F	602.4	-33.0	ENE	2.8	30	○	1	1Ci	↔
17 Dec. 1998	2100	Dome F	601.2	-36.9	NE	2.5	30	⊕	10 -	1AC,10-Ci	
17 Dec. 1998	2400	Dome F	599.9	-41.4		2.4					
18 Dec. 1998	300	Dome F	600.3	-42.6		2.1					
18 Dec. 1998	600	Dome F	600.0	-40.6		2.0					
18 Dec. 1998	900	Dome F	599.7	-37.0	ESE	3.6	30	⊕	3	3Ci	↔
18 Dec. 1998	1200	Dome F	599.4	-35.3	ENE	4.6	30	⊕	2	2Ci	↔
18 Dec. 1998	1500	Dome F	598.3	-34.2	ENE	5.0	30	⊕	3	3Ci	↔
18 Dec. 1998	1900	Dome F	597.8	-35.1	NE	4.4	30	⊕	10 -	10-Ci	
18 Dec. 1998	2100	Dome F	598.0	-37.0	NE	3.2	30	⊕	10 -	10-Ci	
18 Dec. 1998	2400	Dome F	597.7	-40.2		2.1					
19 Dec. 1998	300	Dome F	598.2	-41.9		1.8					
19 Dec. 1998	600	Dome F	598.4	-40.0		2.2					
19 Dec. 1998	900	Dome F	598.9	-36.3	NNE	3.1	20	⊕	10 -	10-Ci	↔
19 Dec. 1998	1200	Dome F	599.2	-33.9	NNE	4.8	20	⊕	10 -	10-Ci	↔
19 Dec. 1998	1500	Dome F	599.0	-33.1	NNE	5.1	20	⊕	10 -	10-Ci	↔
19 Dec. 1998	1800	Dome F	599.9	-32.8	NNE	4.5	20	⊕	10 -	10-Ci	↔
19 Dec. 1998	2100	Dome F	599.9	-35.5	NNE	2.5	20	⊕	10 -	10-Ci	↔
19 Dec. 1998	2400	Dome F	599.8	-40.6		2.0					
20 Dec. 1998	300	Dome F	600.5	-42.0		1.7					
20 Dec. 1998	600	Dome F	600.7	-40.6		1.7					
20 Dec. 1998	900	Dome F	601.3	-37.2	NNE	1.8	20	⊕	10 -	10-Ci	↔
20 Dec. 1998	1200	Dome F	601.0	-34.4	N	3.5	20	⊕	10 -	10-Ci	↔
20 Dec. 1998	1500	Dome F	600.4	-33.7	N	2.3	30	⊕	10 -	10-Ci	↔
20 Dec. 1998	1800	Dome F	600.4	-34.1	NNE	0.7	30	⊕	10 -	10-Ci	↔
20 Dec. 1998	2100	Dome F	600.7	-36.6	NE	0.5	30	⊕	10 -	10-Ci	↔

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
20 Dec. 1998	2400	Dome F	600.3	-39.3		0.6					
21 Dec. 1998	300	Dome F	600.4	-40.0							
21 Dec. 1998	600	Dome F	600.6	-38.7		0.7					
21 Dec. 1998	900	Dome F	600.9	-35.6	SE	0.9	30	⊙	3	3Ci	↔
21 Dec. 1998	1200	Dome F	600.7	-33.6	ESE	1.2	30	○	1	1Ci	↔
21 Dec. 1998	1500	Dome F	601.1	-33.3	ESE	1.5	30	○	1	1Ci	↔
21 Dec. 1998	1800	Dome F	601.4	-33.5	ESE	0.7	30	○	1	1Ci	
21 Dec. 1998	2100	Dome F	602.7	-36.9	ESE	0.8	30	○	1	1Ci	
21 Dec. 1998	2400	Dome F	603.1	-41.1		0.8					
22 Dec. 1998	300	Dome F	604.2	-40.6		0.6					
22 Dec. 1998	600	Dome F	605.3	-39.4		0.4					
22 Dec. 1998	900	Dome F	606.3	-35.8	WSW	0.2	30	○	1	0+Ac,1Ci	↔
22 Dec. 1998	1200	Dome F	606.7	-33.8	N	0.7	30	⊙	3	3Ci	↔
22 Dec. 1998	1500	Dome F	607.4	-31.8	NNW	1.2	30	○	1	1Ci	↔
22 Dec. 1998	1800	Dome F	609.0	-32.3	W	1.4	30	○	0 +	0+Ci	
22 Dec. 1998	2100	Dome F	608.1	-35.0	SW	0.7	30	○	0 +	0+Ci	
22 Dec. 1998	2400	Dome F	607.5	-38.6		1.4					
23 Dec. 1998	300	Dome F	607.3	-41.0		0.6					
23 Dec. 1998	600	Dome F	606.7	-39.8		1.6					
23 Dec. 1998	900	Dome F	605.7	-35.5	SSE	2.5	30	⊙	3	1Ac,2Ci	↔
23 Dec. 1998	1200	Dome F	603.9	-32.7	SSE	3.8	30	○	0 +	0+Ac,0+Ci	↔
23 Dec. 1998	1500	Dome F	602.2	-32.2	SSE	4.4	30	○	0 +	0+Sc,0+Ac	↔
23 Dec. 1998	1930	Dome F	600.6	-34.8	SE	2.8	30	○	0 +	0+Ac	↔
23 Dec. 1998	2100	Dome F	600.0	-37.4	SSE	2.1	30	○	0 +	0+Ac	
23 Dec. 1998	2400	Dome F	598.8	-41.6		1.7					
24 Dec. 1998	300	Dome F	598.7	-43.4		1.4					
24 Dec. 1998	600	Dome F	599.5	-39.7		0.9					
24 Dec. 1998	900	Dome F	601.1	-36.4	ENE	0.5	30	○	0 +	0+Ci	
24 Dec. 1998	1200	Dome F	602.0	-32.6	NE	2.8	30	○	1	1Ci	
24 Dec. 1998	1500	Dome F	603.2	-31.7	NE	4.2	30	⊙	7	7Ci	↔
24 Dec. 1998	1800	Dome F	605.6	-31.4	NE	2.7	30	⊙	10	10-Ci	
24 Dec. 1998	2100	Dome F	605.5	-33.6	NE	2.9	30	⊙	10	10-Ci	
24 Dec. 1998	2400	Dome F	605.6	-36.4		3.1					
25 Dec. 1998	300	Dome F	606.4	-36.3		4.4					
25 Dec. 1998	600	Dome F	606.4	-35.5		4.3					
25 Dec. 1998	900	Dome F	606.3	-33.4	NE	5.5	5	⊙	10	10Cs	↔,⊕
25 Dec. 1998	1200	Dome F	606.3	-29.8	NE	6.4	8	⊙	10	10Cs	↔,⊕
25 Dec. 1998	1500	Dome F	605.4	-27.8	NE	5.6	10	⊙	10 -	10-Ci	↔,⊕
25 Dec. 1998	1800	Dome F	605.3	-27.4	NE	4.5	15	⊙	10 -	0+Ac,10-Ci	↔,⊕
25 Dec. 1998	2100	Dome F	606.1	-29.7	NE	2.9	15	⊙	10 -	1Ac,10-Ci	↔
25 Dec. 1998	2400	Dome F	606.0	-32.6		4.3					
26 Dec. 1998	300	Dome F	606.9	-33.0		3.2					
26 Dec. 1998	600	Dome F				4.7					
26 Dec. 1998	900	Dome F			NNE	5.8	5	⊙	10 -	0+Ac,10-Ci	↔,⊕
26 Dec. 1998	1200	Dome F	608.4	-26.7	NNE	6.4	5	⊙	6	6Ci	↔,⊕
26 Dec. 1998	1500	Dome F	609.5	-25.5	NNE	6.6	5	⊙	10 -	0+St,10-Ci	↔,⊕
26 Dec. 1998	1800	Dome F	608.8	-26.3	NNE	4.9	15	⊙	4	2Sc,2Ci	↔,⊕
26 Dec. 1998	2100	Dome F	610.4	-27.1	N	4.1	20	⊙	10 -	9Sc,XCi	
26 Dec. 1998	2400	Dome F	609.8	-34.6		2.3					
27 Dec. 1998	300	Dome F	610.7	-35.9		3.1					
27 Dec. 1998	600	Dome F	611.4	-34.1		2.3					
27 Dec. 1998	900	Dome F	612.4	-29.2	NE	3.6	30	⊙	10 -	0+Sc,10-Ci	

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
27 Dec. 1998	1200	Dome F	612.0	-26.9	NNE	4.3	20	⊙	10 -	0+Sc,4Ac,10-As	
27 Dec. 1998	1500	Dome F	611.0	-26.7	NNE	3.9	15	⊕	10 -	1Ac,10-Ci	+
27 Dec. 1998	1830	Dome F	611.5	-26.8	NE	3.7	15	⊕	10 -	1Ac,10-Ci	→,+
27 Dec. 1998	2100	Dome F	611.7	-28.1	ENE	4.5	10	⊕	10 -	10-Ci	→,+
27 Dec. 1998	2400	Dome F	611.0	-29.6		3.7					
28 Dec. 1998	300	Dome F	611.7	-29.9		4.1					
28 Dec. 1998	600	Dome F	612.0	-29.6		2.9					
28 Dec. 1998	900	Dome F	612.0	-25.6	NE	7.7	0.5	+	10 -	10-Ci	+
28 Dec. 1998	1200	Dome F	613.4	-25.6	NNE	7.2	0.8	+	10 -	4Ac,10-Ci	+
28 Dec. 1998	1800	Dome F	611.4	-25.9	NNE	4.2	20	⊕	10 -	0+Ac,10-Ci	→
28 Dec. 1998	2100	Dome F	611.2	-28.5	NNE	2.1	15	⊕	10 -	10-Ci	→
28 Dec. 1998	2400	Dome F	611.0	-33.1		1.9					
29 Dec. 1998	300	Dome F	611.5	-34.6		1.8					
29 Dec. 1998	600	Dome F	612.0	-34.3		2.1					
29 Dec. 1998	900	Dome F	611.9	-32.5 *	SW	4 *	10	⊕	3	3Ci	→
29 Dec. 1998	1200	MD702	613.4	-28.9 *	SW	3 *	30	○	0 +	0+Ci	→
29 Dec. 1998	1500	MD680	614.4	-23.4 *	WSW	3 *	30	○	0	-	
29 Dec. 1998	1800	MD642	618.3	-29.5 *			20	○	0 +	0+Ci	
29 Dec. 1998	2100	MD642	619.5	-35.6	SSW	2.0	30	○	1	1Ci	
29 Dec. 1998	2400	MD642	618.4	-41.2		2.0					
30 Dec. 1998	300	MD642	618.5	-42.6		2.3					
30 Dec. 1998	600	MD642	618.6	-39.3		2.1					
30 Dec. 1998	900	MD636	618.2	-30.3 *			30	○	1	0+Sc,0+Ac,1Ci	→
30 Dec. 1998	1200	MD604	619.5	-29.0 *	SSW	3 *	30	○	1	1Ci	→
30 Dec. 1998	1500	MD580	621.9	-27.6 *	SSE	4 *	30	○	1	1Ci	→
30 Dec. 1998	1950	MD550	627.1	-30.4	SSE	1.2	30	○	1	0+Ac,1Ci	
30 Dec. 1998	2100	MD550	627.1	-32.8	SW	1.2	30	○	0 +	0+Ci	
30 Dec. 1998	2400	MD550	626.5	-36.6		2.6					
31 Dec. 1998	300	MD550	626.3	-38.2		1.4					
31 Dec. 1998	600	MD550	626.0	-35.7		1.8					
31 Dec. 1998	900	MD544	626.1	-29.9 *			30	○	0 +	0+Ac,0+Ci	
31 Dec. 1998	1220	MD506	628.6	-25.5 *			30	○	0 +	0+Ci	
31 Dec. 1998	1500	MD482	630.5	-24.5 *			30	○	1	1Ci	
31 Dec. 1998	1910	MD442	634.8	-27.9	ESE	1.0	30	⊕	2	2Ci	
31 Dec. 1998	2100	MD442	635.5	-31.3	ESE	1.4	30	⊕	4	4Ci	
31 Dec. 1998	2400	MD442	631.9	-38.0		1.0					
1 Jan. 1999	300	MD442	635.6	-39.4		1.1					
1 Jan. 1999	600	MD442	635.5	-35.8		1.8					
1 Jan. 1999	900	MD442	635.5	-30.4	ESE	1.7	30	⊕	6	6Ci	
1 Jan. 1999	1200	MD442	635.4	-26.5	SE	2.2	30	⊕	10 -	10-Ci	
1 Jan. 1999	1500	MD442	634.5	-24.7	SE	2.1	30	⊕	10 -	10-Ci	
1 Jan. 1999	1800	MD442	633.1	-25.6	SE	1.6	30	⊕	10 -	10-Ci	
1 Jan. 1999	2100	MD442	633.3	-30.3	SE	2.1	30	⊕	8	8Ci	
1 Jan. 1999	2400	MD442	632.4	-35.8		3.1					
2 Jan. 1999	300	MD442	632.4	-37.0		3.1					
2 Jan. 1999	600	MD442	632.2	-34.1		3.8					
2 Jan. 1999	900	MD438	632.9	-26.8 *	ESE	7 *	1.5	⊕	10 -	10-Ci	+
2 Jan. 1999	1220	MD396	638.2	-24.3 *	ENE	9 *	3	⊕	10 -	10-Ci	+
2 Jan. 1999	1500	MD374	643.7	-21.6 *	ENE	8 *	1.5	⊕	10 -	10-Ci	+
2 Jan. 1999	1930	MD356	649.1	-24.9	E	8.3	1	⊙	10 -	6Ac,10-Ci	+
2 Jan. 1999	2100	MD356	648.4	-25.9	E	7.7	2	⊕	10 -	4Ac,10-Ci	+
2 Jan. 1999	2400	MD356	648.3	-27.8		6.9					

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
3 Jan. 1999	300	MD356	647.3	-31.5		6.7					
3 Jan. 1999	600	MD356	646.6	-30.9		8.1					
3 Jan. 1999	900	MD352	646.6	-26.7 *	E	10 *	3	⊙	3	3Ci	†
3 Jan. 1999	1220	MD324	651.1	-24.0 *	E	12 *	3	⊙	3	3Ci	†
3 Jan. 1999	1500	MD310	652.9	-23.2 *	E	10 *	3	⊙	3	3Ci	†
3 Jan. 1999	2010	MD282	663.6	-24.8	ESE	7.7	6	⊙	3	3Ci	†
3 Jan. 1999	2100	MD282	663.8	-26.7	ESE	7.7	6	⊙	2	2Ci	†
3 Jan. 1999	2400	MD282	663.2	-30.3		7.9					
4 Jan. 1999	300	MD282	663.6	-32.4		8.1					
4 Jan. 1999	600	MD282	663.5	-31.5		8.2					
4 Jan. 1999	900	MD278	663.3	-28.1 *	ESE	10 *	1.5	○	0 +	0+Ci	†
4 Jan. 1999	1220	MD252	666.4	-22.5 *	ESE	14 *	0.8	†	9	9†	†
4 Jan. 1999	1500	MD236	672.3	-24.9 *	E	12 *	0.5	†	9	9†	†
4 Jan. 1999	1900	MD208	681.7	-25.5	ESE	8.4	2	○	1	0+St,0+Sc,1Ci	†
4 Jan. 1999	2100	MD208	681.9	-27.1	ESE	6.3	8	○	0 +	0+Ci	†
4 Jan. 1999	2400	MD208	681.5	-30.7		6.0					
5 Jan. 1999	300	MD208	681.9	-32.8		6.8					
5 Jan. 1999	600	MD208	682.0	-31.5		7.5					
5 Jan. 1999	900	MD196	684.2	-26.4 *	ESE	8 *	3	○	0	-	†
5 Jan. 1999	1200	MD180	686.9	-25.0 *	ESE	7 *	4	○	0	-	†
5 Jan. 1999	1500	MD166	693.5	-22.2 *	E	8 *	10	⊙	5	5Sc,0+Ci	†
5 Jan. 1999	2000	MD136	703.0	-22.4	E	4.2	30	⊙	10 -	9Sc,1Ac,0+Ci	
5 Jan. 1999	2100	MD136	702.9	-22.4	ESE	4.8	30	⊙	10 -	10-Sc	
5 Jan. 1999	2400	MD136	702.8	-28.4		4.5					
6 Jan. 1999	300	MD136	703.6	-26.5		4.0					
6 Jan. 1999	600	MD136	704.2	-27.3		5.4					
6 Jan. 1999	900	MD132	705.6	-21.4 *	E	6 *	15	⊙	9	9Ac	†
6 Jan. 1999	1220	MD112	710.2	-18.2 *	NE	3 *	10	⊙	10 -	9Sc,XAs	†
6 Jan. 1999	1500	MD98	715.7	-20.5 *			20	⊙	4	4Ac	
6 Jan. 1999	1940	MD68	725.0	-20.8	E	2.2	30	⊙	9	9Ac	
6 Jan. 1999	2100	MD68	725.8	-21.6	E	1.5	20	⊙	9	9Ac	
6 Jan. 1999	2400	MD68	724.5	-26.6	1.8						
7 Jan. 1999	300	MD68	724.0	-27.9		4.7					
7 Jan. 1999	600	MD68	723.4	-27.1		7.9					
7 Jan. 1999	900	MD64	722.9	-21.8 *	E	11 *	1.5	○	1	1Ac,0+Ci	†
7 Jan. 1999	1200	MD38	729.5	-17.7 *	E	12 *	1.5	⊙	3	2Ac,3Ci	†
7 Jan. 1999	1500	MD24	733.6	-14.8 *	ENE	12 *	0.08	✕	10	10†	†
7 Jan. 1999	1830	MD10	737.6	-15.1	NE	9.7	0.08	✕	10	10†	†
7 Jan. 1999	2100	MD10	739.6	-15.6	E	7.8	0.1	✕	10	10†	†
7 Jan. 1999	2400	MD10	739.8	-16.1		9.8					
8 Jan. 1999	300	MD10	739.2	-15.8		11.1					
8 Jan. 1999	600	MD10	739.3	-15.1		11.2					
8 Jan. 1999	900	MD2	740.2	-13.5 *	ENE	14 *	0.08	✕	10	10†	†
8 Jan. 1999	1200	Mizuho	741.2	-12.5 *	NE	12 *	0.1	✕	10	10†	†
8 Jan. 1999	1500	Z92	744.8	-12.2 *	ENE	10 *	0.15	✕	10	10†	†
8 Jan. 1999	2000	Z50	751.0	-13.2	ENE	13.4	0.2	✕	10	10†	†
8 Jan. 1999	2100	Z50	751.4	-13.5	ENE	15.2	0.2	✕	10	10†	†
8 Jan. 1999	2400	Z50	750.3	-14.6		16.2					
9 Jan. 1999	300	Z50	749.7	-14.3		15.6					
9 Jan. 1999	600	Z50	750.6	-14.3		12.9					
9 Jan. 1999	900	Z48	749.5	-12.3 *	E	14 *	0.1	†	10 -	8†,XCi	†
9 Jan. 1999	1200	Z22'	760.6	-10.5 *	ENE	14 *	0.1	†	10 -	9†,XAc,XCi	†

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
9 Jan. 1999	1830	Z22'	760.3	-12.0	E	12.2	0.2	+	10	3Sc,10Ac	+
9 Jan. 1999	2100	Z22'	761.8	-12.6	E	10.0	0.5	+	10	2Sc,10Ac	+
9 Jan. 1999	2400	Z22'	763.5	-13.5		8.5					
10 Jan. 1999	300	Z22'		-14.6		9.6					
10 Jan. 1999	600	Z22'		-14.9		11.5					
10 Jan. 1999	900	Z22'		-13.3	E	10.3	0.5	+	10	2Sc,10Ac	+
10 Jan. 1999	1200	Z22'	768.6	-11.8	ENE	8.2	2	⊙	10 -	10-Ac	+
10 Jan. 1999	1500	Z22'	769.9	-11.0	NE	6.5	20	⊕	7	5Ac,3Ci	+
10 Jan. 1999	1800	Z22'	770.2	-12.2	NNE	2.1	30	⊕	3	1Ac,3Ci	
10 Jan. 1999	2100	Z22'	770.1	-14.3	E	2.9	30	⊙	10	6Ac,5Ci	
10 Jan. 1999	2400	Z22'	769.9	-19.0		5.9					
11 Jan. 1999	300	Z22'	769.6	-19.7		6.8					
11 Jan. 1999	600	Z22'	769.0	-19.1		7.0					
11 Jan. 1999	900	Z20'	767.9	-16.1 *	E	6 *	30	⊙	1	1Ci	+
11 Jan. 1999	1210	H276	788.1	-8.5 *	NNE	4 *	30	⊕	2	2Ci	
11 Jan. 1999	1500	H232	801.4	-8.4 *	N	3 *	30	⊕	3	0+Cu,3Ci	
11 Jan. 1999	1950	H128	830.7	-9.6 *	NNE	3.7	10	✕	10 -	1Sc,10-Ac	✕
11 Jan. 1999	2100	H128	830.6	-10.0	NNE	3.5	10	✕	10	10Sc	✕
11 Jan. 1999	2400	H128		-10.4		3.0					
12 Jan. 1999	300	H128		-11.3		3.9					
12 Jan. 1999	600	H128		-11.0		3.1					
12 Jan. 1999	900	H116	831.1	-9.0 *	NE	3 *	10	✕	10 -	10-Ac	✕
12 Jan. 1999	1200	H72	848.4	-6.6 *	ENE	3 *	8	✕	10	10Ac	✕
12 Jan. 1999	1500	H21	863.2	-6.3 *			20	⊙	10 -	0+Cu,0+Sc,10-Ac	
12 Jan. 1999	1800	S30	871.2	-9.5	SW	0.7	30	⊙	10 -	0+Sc,10-As	
12 Jan. 1999	2100	S30	872.6	-12.7	SW	2.5	30	⊙	9	9Sc	
12 Jan. 1999	2400	S30	874.5	-9.8		2.0					
13 Jan. 1999	300	S30	876.3	-9.6		2.1					
13 Jan. 1999	600	S30	879.5	-9.6	SSE	4.2	30	⊙	10 -	9Ac,1Ci	
13 Jan. 1999	900	S30	879.4	-8.1	SSW	1.7	30	⊙	1	1Sc	
13 Jan. 1999	1200	S30	880.9	-6.9	SSW	3.4	30	⊕	3	3St,0+Cu	
13 Jan. 1999	1500	S22	908.7	-4.3 *	WSW	3 *	30	⊙	0 +	0+Ac,0+Ci	
13 Jan. 1999	1910	S16	929.4	-5.2 *	WSW	1.4	30	⊕	2	1Sc,2Ci	
13 Jan. 1999	2100	S16	930.8	-9.9 *	E	2.2	30	⊕	2	1Sc,2Ci	
13 Jan. 1999	2400	S16	929.8	-12.9		5.6					
14 Jan. 1999	300	S16	928.4	-13.6		7.2					
14 Jan. 1999	540	S16	929.0	-11.0	ESE	6.3	30	⊕	9	0+Ac,9Ci	+
14 Jan. 1999	900	S16	927.4	-6.0 *	E	4 *	30	⊕	2	0+Ac,2Ci	
14 Jan. 1999	1200	S16		-2.5 *			30	⊙	1	1Ci	
14 Jan. 1999	1500	S16		-1.5 *			30	⊙	0 +	0+Ac,0+Ci	
14 Jan. 1999	1800	S16	925.0	-1.3	ENE	1.0	30	⊙	0 +	0+Ac,0+Ci	
14 Jan. 1999	2100	S16	924.1	-5.1	E	7.2	30	⊙	0 +	0+Ac,0+Ci	
14 Jan. 1999	2400	S16	924.2	-7.9		13.2					
15 Jan. 1999	300	S16	925.7	-9.2		13.5					
15 Jan. 1999	600	S16	924.6	-8.1		15.5					
15 Jan. 1999	900	S16	924.9	-5.4	ESE	15.5	0.3	+	10 -	10-Ci	+
15 Jan. 1999	1200	S16	923.7	-2.9	E	11.4	3	⊕	3	3Ci	+
15 Jan. 1999	1500	S16	920.4	-2.1	E	11.6	3	⊕	2	2Ci	+

Table 4-7. Meteorological data observed during traverse 5.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
27 Dec. 1998	20:00	S16	928 *	-7.1 *	W	1 *	0.1	≡	10		
28 Dec. 1998	5:50	S16	926 *	-9.8 *	E	3 *	30	○	0 +		
28 Dec. 1998	6:50	S16	925 *	-8.5 *	E	3 *	30	○	0 +		
28 Dec. 1998	20:00	S16	927 *	-3.8 *	W	1 *	30	○	0 +		
29 Dec. 1998	9:00	S16	927 *	-3.3 *	E	3 *	20	⊕	2		
30 Dec. 1998	5:50	S16	924 *	-5.0 *	E	6 *	20	⊙	10		
30 Dec. 1998	9:00	S16	928 *	-2.8 *	E	6 *	20	⊙	10 -		
30 Dec. 1998	15:00	S16	928 *	-2.5 *	E	5 *	30	⊕	7		
31 Dec. 1998	9:00	S26	880 *	-4.8 *	E	11 *	0.05	⊕	10		⊕
31 Dec. 1998	15:00	S26	884 *	-5.3 *	NE	17 *	0.05	⊕	10		⊕
1 Jan. 1999	9:00	S26	888 *	-3.0 *	NE	6 *	20	⊙	9		
1 Jan. 1999	15:00	H65	854 *	-3.2 *	ENE	2 *	30	⊙	8		
2 Jan. 1999	12:00	H114	843 *	-8.3 *	E	23 *	0.02	⊕	10		⊕
2 Jan. 1999	15:00	H114	824 *	-9.2 *	NNE	21 *	0.02	⊕	10		⊕
3 Jan. 1999	9:00	H114	822 *	-9.0 *	NE	9 *	5	⊙	10 -		
3 Jan. 1999	13:00	H114	823 *	-7.0 *	ENE	7 *	10	⊙	10 -		
3 Jan. 1999	15:00	H114	828 *	-7.5 *	NE	7 *	1	⊙	10 -		
4 Jan. 1999	5:50	H114	826 *	-10.7 *	NE	6 *	1	⊙	10		
4 Jan. 1999	6:50	H114	826 *	-10.6 *	E	8 *	1	⊕	8		⊕
4 Jan. 1999	7:50	H114	826 *	-10.2 *	ENE	8 *	1	⊙	9		⊕
4 Jan. 1999	8:50	H114	827 *	-9.3 *	NE	8 *	1	⊕	8		⊕
4 Jan. 1999	9:50	H114	827 *	-9.5 *	NE	7 *	2	⊕	6		
4 Jan. 1999	15:00	H114	827 *	-7.0 *	ENE	8 *	2	⊙	8		
5 Jan. 1999	9:00	H114	828 *	-8.7 *	NNE	1 *	2	⊙	10		
5 Jan. 1999	15:00	H160	816 *	-6.5 *		0 *	2	×	10		×
6 Jan. 1999	0:00	H186	809 *	-21.2 *	NNE	1 *	20	×	7		×
6 Jan. 1999	9:00	H186	810 *	-13.5 *	NNE	2 *	30	⊙	10 -		
6 Jan. 1999	17:00	H260	791 *	-11.0 *	ENE	2 *	10	⊙	9		
7 Jan. 1999	9:00	H301	766 *	-15.5 *	E	12 *	0.1	⊕	4		⊕
7 Jan. 1999	15:00	Z19	758 *	-11.5 *	E	17 *	0.05	⊕	10		⊕
8 Jan. 1999	10:00	Z22	758 *	-9.0 *	NNE	10 *	0.1	≡	10		≡
8 Jan. 1999	15:00	Z22	757 *	-10.6 *	NNE	10 *	0.5	⊙	10		⊕
9 Jan. 1999	18:30	Z22	762 *	-13.0 *	NE	10 *	0.2	⊕	10		⊕
10 Jan. 1999	8:30	Z22	765 *	-12.0 *	E	12 *	0.2	⊕	10		⊕
10 Jan. 1999	15:00	Z38	761 *	-11.0 *	ENE	6 *	20	⊕	6		
11 Jan. 1999	9:00	Z92	748 *	-15.5 *	SE	12 *	30	○	1		⊕
11 Jan. 1999	15:00	MD2	749 *	-11.8 *	E	10 *	30	○	0 +		⊕
12 Jan. 1999	9:00	MD42	727 *	-17.8 *	E	9 *	30	⊕	9		
12 Jan. 1999	15:00	MD72	719 *	-11.8 *	E	9 *	30	⊕	5		
13 Jan. 1999	9:00	MD112	715 *	-20.5 *	ENE	10 *	20	○	1		⊕
13 Jan. 1999	15:00	MD146	708 *	-17.0 *	E	5 *	30	○	0 +		
14 Jan. 1999	9:00	MD190	694 *	-21.4 *	ENE	6 *	30	○	0		
14 Jan. 1999	15:00	MD230	685 *	-19.0 *	ESE	8 *	30	○	0		⊕
15 Jan. 1999	9:00	MD250	678 *	-20.0 *	ESE	14 *	1	⊕	0		⊕
15 Jan. 1999	15:00	MD280	670 *	-16.0 *	ESE	13 *	1	⊕	0		⊕
16 Jan. 1999	9:00	MD320	654 *	-22.5 *	ESE	10 *	1	⊕	0		⊕

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
16 Jan. 1999	15:00	MD364	643 *	-21.0 *	ESE	10 *	1	+	0		+
17 Jan. 1999	9:00	MD384	638 *	-28.5 *	ES	6 *	1	○	0		→
17 Jan. 1999	15:00	MD424	631 *	-26.2 *	ESE	7 *	5	○	0 +		
18 Jan. 1999	9:00	MD454	629 *	-32.6 *	NE	5 *	30	⊕	8		
18 Jan. 1999	15:00	MD500	625 *	-26.5 *	E	6 *	20	○	0		
19 Jan. 1999	9:00	MD530	626 *	-31.0 *	ENE	5 *	30	○	1		
19 Jan. 1999	15:00	MD570	621 *	-23.0 *	ENE	5 *	20	⊕	5		
20 Jan. 1999	9:00	MD600	621 *	-31.5 *	ENE	6 *	2	⊕	2		→
20 Jan. 1999	15:00	MD650	618 *	-28.5 *	ENE	8 *	2	⊕	2		+
21 Jan. 1999	9:00	MD680	612 *	-32.7 *	ES	5 *	1	⊕	2		→
21 Jan. 1999	15:00	MD730	610 *	-27.5 *	E	7 *	1	⊕	4		+
22 Jan. 1999	15:00	Dome F	610 *	-29.6 *	E	6 *	10	○	0 +		+
23 Jan. 1999	9:00	Dome F	601 *	-29.6 *	ES	9 *	0.2	+	10		+
23 Jan. 1999	15:00	Dome F	603 *	-26.6 *	E	7 *	1	⊕	2		+
24 Jan. 1999	9:00	Dome F	602 *	-27.5 *	ENE	6 *	20	○	0 +		
24 Jan. 1999	15:00	Dome F	603 *	-24.8 *	E	6 *	30	○	0		
25 Jan. 1999	9:00	Dome F	603 *	-33.0 *	E	4 *	30	○	0 +		
25 Jan. 1999	15:00	Dome F	602 *	-27.5 *	ES	5 *	30	○	2		
26 Jan. 1999	9:00	Dome F	601 *	-35.5 *	E	5 *	30	○	0		→
26 Jan. 1999	15:00	Dome F	604 *	-28.6 *	ESE	5 *	30	○	0		
27 Jan. 1999	15:00	Dome F	601 *	-31.5 *	E	2 *	30	○	0 +		
28 Jan. 1999	15:00	MD714	603 *	-33.5 *	E	5 *	10	⊕	7		
29 Jan. 1999	9:00	MD664	604 *	-37.5 *	ESE	3 *	20	⊕	2		
29 Jan. 1999	15:00	MD614	608 *	-32.5 *	E	5 *	20	⊕	3		
30 Jan. 1999	9:00	MD574	608 *	-35.5 *	ES	4 *	30	○	1		
30 Jan. 1999	15:00	MD550	614 *	-31.0 *	E	7 *	30	○	0 +		
31 Jan. 1999	9:00	MD544	608 *	-35.0 *	ES	5 *	1	⊕	5		+
31 Jan. 1999	15:00	MD488	619 *	-28.8 *	E	4 *	2	⊕	3		+
1 Feb. 1999	9:00	MD438	621 *	-31.6 *	ESE	9 *	0.5	+	10 -		+
1 Feb. 1999	15:00	MD388	630 *	-31.0 *	ESE	8 *	1	⊕	7		+
2 Feb. 1999	9:00	MD344	643 *	-35.0 *	ESE	6 *	2	⊕	5		
2 Feb. 1999	15:00	MD304	653 *	-26.5 *	E	8 *	5	⊕	2		+
3 Feb. 1999	9:00	MD264	664 *	-30.6 *	ESE	10 *	0.2	+	0		+
3 Feb. 1999	15:00	MD224	676 *	-22.5 *	E	13 *	0.2	+	0		+
4 Feb. 1999	9:00	MD194	687 *	-25.4 *	ES	13 *	0.2	+	0		+
4 Feb. 1999	15:00	MD164	696 *	-20.0 *	ESE	13 *	0.5	+	0		+
5 Feb. 1999	9:00	MD134	706 *	-24.5 *	E	11 *	1	+	2		+
5 Feb. 1999	15:00	MD96	715 *	-15.5 *	ES	10 *	10	○	0 +		+
6 Feb. 1999	9:00	MD66	721 *	-21.0 *	E	9 *	20	⊙	9		+
6 Feb. 1999	15:00	MD16	734 *	-13.5 *	E	8 *	20	⊕	7		
7 Feb. 1999	9:00	Z96	744 *	-22.4 *	E	13 *	2	⊙	10 -		+
7 Feb. 1999	15:00	Z32	752 *	-16.0 *	ENE	11 *	10	⊙	10 -		
8 Feb. 1999	9:00	Z2	765 *	-19.6 *	E	7 *	1	⊙	10 -		+
8 Feb. 1999	15:00	H220	797 *	-9.5 *	ENE	4 *	30	○	0 +		
9 Feb. 1999	9:00	H160	818 *	-15.0 *	ENE	12 *	0.2	+	0		+
9 Feb. 1999	15:00	H60	859 *	-11.0 *	ENE	15 *	0.5	+	2		+
9 Feb. 1999	22:00	H21	868 *	-13.8 *	E	19 *	0.2	+	2		+
10 Feb. 1999	9:00	S30	872 *	-10.5 *	ENE	20 *	0.1	+	6		+

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
10 Feb. 1999	15:00	S18	917 *	-6.5 *	ENE	22 *	0.5	+	8		+
11 Feb. 1999	9:00	S18	914 *	-8.5 *	E	7 *	20	⊖	7		
11 Feb. 1999	15:00	S16	914 *	-4.7 *	ENE	3 *	20	⊖	4		
12 Feb. 1999	15:00	S16	917 *	-4.3 *	E	5 *	10	⊖	4		
13 Feb. 1999	5:50	S16	917 *	-8.4 *	E	6 *	5	×	7		×
13 Feb. 1999	6:50	S16	917 *	-8.4 *	E	6 *	5	×	10		×
13 Feb. 1999	7:50	S16	919 *	-6.5 *	E	6 *	10	⊙	10 -		
13 Feb. 1999	15:00	S16	931 *	-4.5 *	W	3 *	20	⊙	10 -		
14 Feb. 1999	6:50	S16	928 *	-8.5 *	E	2 *	10	⊙	10 -		
14 Feb. 1999	8:50	S16	928 *	-8.0 *	E	2 *	10	⊙	10 -		
14 Feb. 1999	10:50	S16	928 *	-7.4 *	E	3 *	10	⊙	10 -		
14 Feb. 1999	12:50	S16	928 *	-6.5 *	NNE	4 *	5	×	10 -		×
14 Feb. 1999	13:50	S16	928 *	-6.5 *	NE	5 *	10	×	10 -		×
15 Feb. 1999	5:50	S16	928 *	-8.7 *	E	9 *	5	⊙	9		+
15 Feb. 1999	6:50	S16	929 *	-9.5 *	E	9 *	5	⊙	10 -		+

Table 4-8. Meteorological data observed during traverse 6.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
24 Aug.1999	21:00	S16	921.5	-24.1	E	9.4	5	○	0 +	0+Ci	✚
25 Aug.1999	03:00	S16		-23.7		9.4					
25 Aug.1999	09:00	S16	922.4	-24.3	E	8.2	20	○	1	1 Ci	✚
25 Aug.1999	14:59	S26	879.4	-27.5	E	7.4	30	⊕	6	0+Ac; 6 Ci	✚
25 Aug.1999	21:00	H9	857.2	-29.2	E	8.6	10	○	0 +	0+Ac; 0+Ci	✚
26 Aug.1999	03:00	H9		-29.2		10.1					
26 Aug.1999	09:00	H9	847.8	-29.0	E	10.8	8	○	0 +	0+Ac; 0+Ci	✚
26 Aug.1999	15:00	H72	826.5	-32.4	E	7.6	30	○	0 +	0+Ci	✚
26 Aug.1999	21:00	H96	818.4	-36.6	E	9.4	8	○	0 +	0+Ci	✚
27 Aug.1999	03:00	H96		-30.7		7.6					
27 Aug.1999	09:00	H96	828.5	-30.9	ENE	9.0	8	⊕	10 -	2 Sc; 1 Ac; 10-Ci	✚
27 Aug.1999	14:59	H144	813.2	-29.4	E	8.3	3	⊕	10 -	2 Sc; 10-Ci	✚
27 Aug.1999	21:00	H172	801.2	-33.6	E	8.7	4	⊕	4	0+Ac; 4 Ci	✚
28 Aug.1999	03:00	H172		-33.9		9.5					
28 Aug.1999	09:00	H172	801.1	-31.7	E	7.8	4	⊕	10 -	2 Ac; 10-Ci	✚
28 Aug.1999	15:00	H228	788.1	-30.6	E	3.5	30	⊙	10 -	10-Sc	
28 Aug.1999	21:00	H256	781.5	-39.7	ESE	4.8	10	⊕	3	1 Sc; 0+Ac; 3 Ci	→
29 Aug.1999	03:00	H256		-41.4		4.8					
29 Aug.1999	09:00	H256	786.3	-40.6	ESE	4.2	30	⊕	7	7 Ci	
29 Aug.1999	15:00	H298	773.7	-34.6	E	5.7	5	✖	10	4 Ac; 10 As	✖
29 Aug.1999	21:00	H298	776.6	-31.1	E	5.4	5	✖	10	4 Ac; 10 As	✖
30 Aug.1999	03:00	H298		-27.9		1.8					
30 Aug.1999	09:00	H298	781.7	-31.1	E	8.4	2	⊕	10 -	10-Ci	✚
30 Aug.1999	15:00	Z14	768.0	-29.5	E	11.1	0.08	✖	10	10 ✚	✚
30 Aug.1999	22:00	Z14	758.1	-24.3	E	15.8	0.02	✖	10	10 ✚	✚
31 Aug.1999	03:00	Z14		-24.2		9.4					
31 Aug.1999	09:00	Z14	762.7	-26.2	NE	3.9	5	✖	10	6 Ac; 10 As	✖
31 Aug.1999	15:10	Z46	753.4	-30.9	ENE	4.9	20	⊕	10 -	0+Sc; 3 Ac; 7 Cs; 3 Ci	
31 Aug.1999	21:00	Z76	747.5	-39.6	ENE	6.1	7	○	1	1 Ci	✚
01 Sep.1999	03:00	Z76		-42.2		7.5					
01 Sep.1999	09:00	Z76	740.3	-40.7	E	9.7	0.3	✚	0	-	✚
01 Sep.1999	15:00	Z90	729.9	-37.5	E	12.7	0.07	✚	0	-	✚
01 Sep.1999	21:00	Z96	724.2	-39.1	ESE	13.0	0.03	✚	1	1 Sc	✚
02 Sep.1999	03:00	Z96		-41.4		13.5					
02 Sep.1999	09:00	Z96	723.9	-41.4	ESE	12.9	0.03	✚	0	-	✚
02 Sep.1999	15:00	Mizuho	719.0	-42.1	ESE	11.2	0.05	✚	0	-	✚
02 Sep.1999	21:30	Mizuho	717.9	-46.4	ESE	12.4	0.05	✚	0	-	✚
03 Sep.1999	03:00	Mizuho		-47.7		12.0					
03 Sep.1999	09:00	Mizuho	719.0	-47.9	ESE	12.1	0.05	✚	0	-	✚
03 Sep.1999	15:00	Mizuho	721 *	-47.2 *	ESE	13 *	0.1	✚	0	-	✚
03 Sep.1999	23:10	Mizuho	723 *	-49.0 *	ESE	9.8	0.2	✚	0	-	✚
04 Sep.1999	03:00	Mizuho		-47.3		10.3					
04 Sep.1999	09:00	Mizuho	725.4	-46.5 *	E	10.6	0.2	✚	0	-	✚
04 Sep.1999	15:00	Mizuho	726.9	-41.7 *	E	10.4	0.7	✚	10 -	10-Ci	✚
04 Sep.1999	21:00	Mizuho	727.9	-41.0	E	11.7	0.2	✚	3	3 Ci	✚
05 Sep.1999	03:00	Mizuho		-35.9		12.5					
05 Sep.1999	09:00	Mizuho	726.7	-32.9	E	12.3	0.03	✖	10	10 ✚	✚
05 Sep.1999	15:00	Mizuho	724.6	-30.0	E	12.1	0.05	✚	10	7 Ac; 10 As	✚
05 Sep.1999	21:00	Mizuho	725.9	-31.2	ENE	9.4	0.05	✚	10 -	6 Ac; 10-Ci	✚

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
06 Sep.1999	03:00	Mizuho		-33.7		8.1					
06 Sep.1999	08:00	Mizuho	729.6	-35.5	E	8.5	0.2	✚	10 -	5 Ac;10-Ci	✚
06 Sep.1999	15:00	Z70	738.1	-35.1	E	4.7	20	⊕	10 -	10-Ci	✚
06 Sep.1999	21:00	Z46	743.1	-38.9	E	4.3	15	⊕	4	4 Ci	
07 Sep.1999	03:00	Z46		-39.7		6.7					
07 Sep.1999	08:00	Z46	743.7	-40.5	E	8.5	7	⊕	3	0+Ac; 3 Ci	✚
07 Sep.1999	15:00	Z4	756.4	-35.4	E	8.6	5	⊕	10 -	0+Sc; 2 Ac;10-Ci	✚
07 Sep.1999	21:00	H288	767.0	-39.3	E	9.7	1	⊕	5	5 Ci	✚
08 Sep.1999	03:00	H288		-42.9		8.8					
08 Sep.1999	08:00	H288	768.0	-44.8	ESE	8.9	0.6	✚	0	-	✚
08 Sep.1999	15:00	H236	786.6	-38.9	E	7.1	10	⊕	3	3 Ci	✚
08 Sep.1999	21:00	H236	786.7	-42.5	E	8.3	5	⊕	3	3 Ci	✚
09 Sep.1999	03:00	H236		-42.9		8.7					
09 Sep.1999	08:11	H236	782.3	-42.4	E	9.7	1	○	0 +	0+Ac; 0+Ci	✚
09 Sep.1999	15:00	H164	799.4	-37.0	E	6.3	30	○	0 +	0+Ac; 0+Ci	✚
09 Sep.1999	21:00	H136	810.0	-41.1	E	5.7	20	○	0 +	0+Ci	✚
10 Sep.1999	03:00	H136		-41.5		6.1					
10 Sep.1999	08:00	H136	812.8	-45.5	ESE	9.5	0.1	✚	0 +	0+Ci	✚
10 Sep.1999	15:00	H84	834.3	-35.0	ESE	12.3	0.05	✚	10	10 ✚	✚
10 Sep.1999	21:00	H68	849.8	-30.7	E	13.6	0.03	✚	10	10 ✚	✚
11 Sep.1999	03:00	H68		-25.8		12.3					
11 Sep.1999	08:00	H68	856.4	-20.8	ENE	11.8	0.5	✚	10	0+Sc;10 Ac	✚
11 Sep.1999	15:00	H3	876.2	-17.0	ENE	11.4	1	⊙	10	4 Ac;10 As	✚
11 Sep.1999	23:00	S16	927.8	-14.8	ENE	12.5	0.05	✚	10	10 ✚	✚
12 Sep.1999	03:00	S16		-19.1		0.9					
12 Sep.1999	09:00	S16	929.5	-21.2	E	4.7	30	⊕	10 -	10-Ci	
12 Sep.1999	15:00	S16	932 *	-20.1 *	ENE	3 *	30	⊕	10 -	10-Ci	
12 Sep.1999	21:00	S16	926 *	-20.5 *	E	12 *	8	⊕	5	5 Ci	✚
13 Sep.1999	06:00	S16	919 *	-19.4 *	E	13 *	0.1	✚	4	4 Ci	✚

Table 4-9. Meteorological data observed during traverse 7.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
01 Nov. 1999	21:00	S16	903.9	-21.4	E	4.8	15	⊕	4	0+Sc;4Ac	
02 Nov. 1999	03:00	S16		-16.3		2.7					
02 Nov. 1999	08:00	S16	910.5	-14.3	ESE	6.7	15	⊙	10	1Sc;10Ac	
02 Nov. 1999	15:00	S21	894.6	-10.9	ENE	9.3	5	⊕	10 -	1Sc;3Ac;10-Cs	+
02 Nov. 1999	21:00	S27	869.9	-14.6	E	10.7	0.2	+	10	6+;xCs	+
03 Nov. 1999	03:00	S27		-14.0		12.8					
03 Nov. 1999	08:00	S27	871.3	-11.2	ENE	12.1	0.05	+	10	10+	+
03 Nov. 1999	15:00	S27	869.9	-8.8	ENE	16.4	0.02	×	10	10+	+
03 Nov. 1999	21:00	S27	869.0	-7.9	NE	12.7	0.02	×	10	10+	+
04 Nov. 1999	03:00	S27		-6.8							
04 Nov. 1999	08:00	S27	869.2	-6.7	NE	11.9	0.03	×	10	10+	+
04 Nov. 1999	15:00	S27	865.5	-7.1	NE	18.2	0.01	×	10	10+	+
04 Nov. 1999	21:00	S27	864.5	-8.1	NE	18.4	0.01	×	10	10+	+
05 Nov. 1999	03:00	S27		-8.7		12.3					
05 Nov. 1999	08:00	S27	874.0	-8.3	NE	8.1	0.2	×	10	10+	+
05 Nov. 1999	15:00	H27	859.9	-8.5	NE	6.7	0.5	×	10	10Sc	+
05 Nov. 1999	21:00	H80	845.1	-10.9	E	5.3	15	⊙	10	1Sc;5Ac;10As	
06 Nov. 1999	03:00	H80		-12.1		6.8					
06 Nov. 1999	08:00	H80	844.2	-12.3	E	8.5	0.8	+	10 -	0+Sc;0+Ac;7Cs;3Ci	+
06 Nov. 1999	15:00	H152	819.8	-11.3	ENE	10.4	0.5	+	10 -	2Ac;10-Cs	+
06 Nov. 1999	21:00	H188	811.7	-13.0	E	9.7	0.5	+	10 -	1Ac;10-Cs	+
07 Nov. 1999	03:00	H188		-15.7		11.6					
07 Nov. 1999	08:00	H188	817.7	-15.4	E	9.5	1	⊕	10	10Cs	+
07 Nov. 1999	15:00	H268	795.5	-15.4	E	10.2	0.4	+	10 -	1Ac;1Cc;10-Cs	+
07 Nov. 1999	21:00	H293	786.8	-19.0	E	10.4	1	⊕	10 -	3Ac;2Cc;10-Ci	+
08 Nov. 1999	03:00	H293		-23.5		10.7					
08 Nov. 1999	08:00	H293	787.1	-20.8	E	13.5	0.2	+	0 +	0+Ci	+
08 Nov. 1999	15:00	Z34	766.7	-17.9	E	9.8	1	○	0 +	0+Ac;0+Ci	+
08 Nov. 1999	21:00	Z70	758.2	-27.0	ESE	12.3	0.2	+	0 +	0+Ci	+
09 Nov. 1999	03:00	Z70		-31.3		12.3					
09 Nov. 1999	08:00	Z70	753.0	-24.5	ESE	13.0	0.2	+	0 -		+
09 Nov. 1999	15:00	IM0	744	* -21.0 *	ESE	14 *	0.3	+	0 -		+
09 Nov. 1999	21:00	IM0	739.1	-27.3	ESE	11.9	0.3	+	0 +	0+Ac	+
10 Nov. 1999	03:00	IM0		-32.5		10.6					
10 Nov. 1999	08:00	IM0	737.0	-28.0	ESE	12.4	0.3	+	0 -		+
10 Nov. 1999	15:00	MD24	728.3	-23.2	ESE	7.9	10	○	0 +	0+Ac;0+Cc;0+Ci	+
10 Nov. 1999	21:00	MD38	725.3	-31.3	ESE	7.4	20	○	1	0+Ac;0+Cc;1Ci	+
11 Nov. 1999	03:00	MD38		-36.2		8.3					
11 Nov. 1999	08:00	MD38	725.1	-30.8	ESE	9.5	1	⊕	10 -	0+Ac;10-Ci	+
11 Nov. 1999	15:00	MD70	713.0	-26.7	E	7.8	10	○	1	0+Ac;0+Cc;1Ci	+
11 Nov. 1999	21:00	MD86	708.7	-33.0	ESE	7.4	20	○	0 -		+
12 Nov. 1999	03:00	MD86		-36.9		8.8					
12 Nov. 1999	08:00	MD86	711.1	-31.4	ESE	7.1	15	○	0 +	0+Ac;0+Ci	+
12 Nov. 1999	15:00	MD118	701.1	-24.7	E	6.1	30	○	0 +	0+Ac;0+Ci	
12 Nov. 1999	21:00	MD134	695.7	-31.9	ESE	6.0	30	⊕	7	0+Ac;3Cc;4Ci	
13 Nov. 1999	03:00	MD134		-36.6		6.6					
13 Nov. 1999	08:00	MD134	695.6	-31.9	ESE	7.7	8	○	0 +	0+Ac;0+Ci	+
13 Nov. 1999	15:00	MD160	684.8	-26.5	ESE	7.4	10	○	0 +	0+Ci	+
13 Nov. 1999	21:00	MD172	680.5	-33.0	ESE	5.5	30	○	0 +	0+Ci	
14 Nov. 1999	03:00	MD172		-36.9		4.7					
14 Nov. 1999	08:00	MD172	681.3	-31.1	ESE	7.0	10	⊕	10 -	0+Ac;0+Cc;4Ci;6Cs	→
14 Nov. 1999	15:00	MD202	669.0	-25.6	ENE	5.9	5	×	10	10St	×

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
14 Nov. 1999	21:00	MD220	664.3	-31.0	ESE	3.5	5	✕	10	7Ac;10Cs	✕
15 Nov. 1999	03:00	MD220		-37.5		4.5					
15 Nov. 1999	08:00	MD220	664.6	-32.4	SE	5.0	8	⊙	7	0+Ac;3Cc;7Ci	→
15 Nov. 1999	15:00	MD244	656.6	-26.4	ENE	4.9	10	⊙	10 -	0+Ac;7Cs;3Ci	→
15 Nov. 1999	21:00	MD244	657.9	-34.2	SE	2.9	15	⊙	10 -	3Ac;4Cc;9Ci	→
16 Nov. 1999	03:00	MD244		-40.2		6.1					
16 Nov. 1999	08:00	MD244	659.2	-35.3	SE	6.8	5	○	0 +	0+Ac;0+Cc;0+Ci	→,+
16 Nov. 1999	15:00	MD276	650.5	-30.0	ESE	5.6	10	○	0 +	0+Ac;0+Ci	→,+
16 Nov. 1999	21:00	MD294	644.4	-37.1	SE	5.9	8	⊙	10 -	0+Ac;7Cs;3Ci	→,+
17 Nov. 1999	03:00	MD294		-40.6		5.9					
17 Nov. 1999	08:00	MD294	646.0	-35.9	SE	6.5	3	⊙	10 -	0+Ac;10-Cs	→,+
17 Nov. 1999	15:00	MD326	639.5	-30.6	ESE	5.7	3	⊙	10 -	0+Ac;6Cs;4Ci	→,+
17 Nov. 1999	21:00	MD348	635.7	-38.8	SE	4.1	20	⊙	10 -	0+Ac;10-Cs	
18 Nov. 1999	03:00	MD348		-42.9		3.3					
18 Nov. 1999	08:00	MD348	638.8	-36.7	SE	5.6	30	○	1	0+Ac;1Ci	
18 Nov. 1999	15:00	MD370	634.1	-31.8	SE	5.2	30	⊙	4	4Ci	
18 Nov. 1999	21:00	MD388	630.6	-41.3	SSE	4.1	30	○	0 +	0+Cc;0+Ci	→
19 Nov. 1999	03:00	MD388		-45.8		5.8					
19 Nov. 1999	08:00	MD388	630.8	-39.0	SE	6.9	1.5	○	0 +	0+Ci	→,+
19 Nov. 1999	15:00	MD420	622.1	-33.6	SE	6.7	4	⊙	9	7Cs;2Ci	+
19 Nov. 1999	21:00	MD440	617.7	-41.6	SE	5.8	10	⊙	4	2Cs;2Ci	+
20 Nov. 1999	03:00	MD440		-46.3		6.6					
20 Nov. 1999	08:00	MD440	615.9	-40.1	SE	7.5	3	○	1	1Ci	+
20 Nov. 1999	15:00	MD440	613.5	-33.2	SE	8.7	0.8	+	10 -	9Cs;1Ci	+
20 Nov. 1999	21:00	MD440	613.5	-38.7	SE	6.3	1	⊙	10 -	2Ac;10-Cs	+
21 Nov. 1999	03:00	MD440		-45.5		4.1					
21 Nov. 1999	08:00	MD440	614.4	-41.0	SE	5.2	1.5	○	1	1Ci	→,+
21 Nov. 1999	15:00	MD474	610.1	-34.7	E	3.6	10	⊙	3	0+Ac;2Cs;1Ci	→
21 Nov. 1999	21:00	MD494	608.6	-43.6	ESE	1.8	20	⊙	6	0+Ac;1Cc;3Cs;3Ci	→
22 Nov. 1999	03:00	MD494		-47.7		1.1					
22 Nov. 1999	08:00	MD494	609.1	-41.3	SE	2.2	8	⊙	7	7Cs	→
22 Nov. 1999	15:00	MD528	605.7	-35.7	ENE	1.7	8	⊙	7	3Ac;0+Cc;7Ci	→
22 Nov. 1999	21:00	MD546	603.8	-43.5	SE	1.0	15	⊙	9	0+Ac;7Cs;2Ci	→
23 Nov. 1999	03:00	MD546		-46.2		1.3					
23 Nov. 1999	08:00	MD546	604.6	-42.3	ESE	1.7	20	⊙	4	2Cs;2Ci	→
23 Nov. 1999	15:00	MD580	598.6	-36.6	NE	1.9	20	⊙	8	0+Ac;5Cs;3Ci	→
23 Nov. 1999	21:00	MD598	595.8	-43.5	E	0.5	8	⊙	10	2Ac;3As;10Cs	→
24 Nov. 1999	03:00	MD598		-48.7		0.5					
24 Nov. 1999	08:00	MD598	596.4	-44.1	ESE	1.5	20	○	0 +	0+Ci	→
24 Nov. 1999	15:00	MD632	594.1	-37.8	-	0.0	30	○	1	0+Ac;1Ci	→
24 Nov. 1999	21:00	MD652	592.4	-45.8	-	0.0	30	○	0 +	0+Ac;0+Ci	
25 Nov. 1999	03:00	MD652		-50.8		0.6					
25 Nov. 1999	08:00	MD652	594.6	-45.6	WSW	1.3	30	⊙	3	0+Ac;3Ci	→
25 Nov. 1999	15:00	MD690	592.2	-36.4	WNW	2.0	30	○	0 +	0+Ac;0+Ci	→
25 Nov. 1999	21:00	MD710	591.1	-48.0	NW	1.3	20	⊙	2	0+Ac;2Ci	→
26 Nov. 1999	03:00	MD710		-39.2		0.2					
26 Nov. 1999	08:00	MD710	591.2	-44.3	-	0.0	20	⊙	2	0+Ac;2Ci	→
26 Nov. 1999	15:00	DomeF	590.6	-37.0	NE	2.0	30	⊙	4	0+Ac;4Ci	
26 Nov. 1999	21:00	DomeF	587.2	-45.1	NE	2.3	30	○	0 +	0+Ac;0+Ci	→
27 Nov. 1999	03:00	DomeF		-48.3		1.4					
27 Nov. 1999	08:00	DomeF	589.5	-44.1	NNE	1.5	10	⊙	5	0+Ac;5Ci	→
27 Nov. 1999	15:00	DomeF	588.0	-36.7	NNW	3.9	20	⊙	3	3Ci	→
27 Nov. 1999	21:00	DomeF	586.9	-46.1	NNE	1.6	15	○	1	0+Ac;1Ci	→
28 Nov. 1999	03:00	DomeF		-47.7		1.2					

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
28 Nov. 1999	08:00	DomeF	588.5	-44.7	WNW	0.3	20	○	0 +	0+Ac;0+Ci	↔
28 Nov. 1999	15:00	DomeF	587.0	-37.7	W	1.2	30	○	0 +	0+Ac;0+Ci	↔
28 Nov. 1999	21:00	DomeF	586.5	-42.5	N	0.3	30	○	0 +	0+Ac;0+Ci	↔
29 Nov. 1999	03:00	DomeF		-45.6		0.0					
29 Nov. 1999	08:00	DomeF	586.7	-44.9	ESE	0.7	30	○	0 +	0+Ci	↔
29 Nov. 1999	15:00	DomeF	586.0	-37.9	E	3.0	20	⊕	5	5Ci	↔
29 Nov. 1999	21:00	DomeF	587.6	-45.2	ENE	2.6	8	⊕	9	1Ac;9Cs	↔
30 Nov. 1999	03:00	DomeF		-50.6		2.6					
30 Nov. 1999	08:00	DomeF	588.4	-42.0	NE	2.6	20	⊕	9	0+Ac;7Cs;2Ci	↔
30 Nov. 1999	15:00	DomeF	586.8	-35.4	NE	5.1	15	⊕	10 -	10-Cs	↔
30 Nov. 1999	21:00	DomeF	584.1	-44.4	ENE	2.5	20	⊕	7	0+Ac;1Cc;7Ci	↔
01 Dec. 1999	03:00	DomeF		-49.1		2.3					
01 Dec. 1999	08:00	DomeF	587.6	-43.7	NE	1.4	20	⊕	9	0+Ac;9Ci	↔
01 Dec. 1999	15:00	DomeF	586.3	-36.4	NE	2.5	30	⊕	7	1Cc;7Ci	↔
01 Dec. 1999	21:00	DomeF	586.7	-45.0	E	2.5	30	○	0 +	0+Ac;0+Ci	↔
02 Dec. 1999	03:00	DomeF		-49.6		2.3					
02 Dec. 1999	08:00	DomeF	586.4	-42.4	NNE	2.2	15	⊕	10	0+Ac;10Cs	↔
02 Dec. 1999	15:00	DomeF	584.8	-36.3	NNW	3.9	20	⊕	4	0+Cc;3Cs;1Ci	↔
02 Dec. 1999	21:00	DomeF	583.7	-46.2	N	1.6	20	⊕	2	2Ci	↔
03 Dec. 1999	03:00	DomeF		-51.9		1.4					
03 Dec. 1999	08:00	DomeF	585.2	-44.1	W	0.8	30	○	0 +	0+Ac;0+Ci	↔
03 Dec. 1999	15:00	DomeF	586.4	-36.7	W	2.9	30	○	0 +	0+Ci	↔
03 Dec. 1999	21:00	DomeF	585.0	-46.4	WNW	1.1	30	○	0 +	0+Ci	↔
04 Dec. 1999	03:00	DomeF		-50.8		0.6					
04 Dec. 1999	08:00	DomeF	585.3	-42.0	-	0.2	30	○	0 +	0+Ac	↔
04 Dec. 1999	15:00	DomeF	585.1	-37.6	ENE	1.1	30	○	0	-	↔
04 Dec. 1999	21:00	DomeF	585.1	-41.7	-	0.2	30	○	0 +	0+Ac	↔
05 Dec. 1999	03:00	DomeF		-42.6		0.7					
05 Dec. 1999	08:00	DomeF	585.9	-44.0	SW	0.9	15	○	0	-	↔
05 Dec. 1999	15:00	DomeF	587.5	-37.4	SSW	1.6	30	○	0	-	
05 Dec. 1999	21:00	DomeF	587.9	-43.6	SSW	0.6	30	○	0	-	
06 Dec. 1999	03:00	DomeF		-45.6		0.8					
06 Dec. 1999	08:00	DomeF	589.7	-43.0	SW	0.8	20	○	0	-	↔
06 Dec. 1999	15:00	DomeF	589.9	-37.0	NE	0.8	30	○	0 +	0+Ac	
06 Dec. 1999	21:00	DomeF	590.4	-40.8	ENE	2.3	30	○	0 +	0+Ci	
07 Dec. 1999	03:00	DomeF		-44.9		2.7					
07 Dec. 1999	08:00	DomeF	591.5	-39.8	ENE	4.2	20	⊕	10 -	8Cs;2Ci	
07 Dec. 1999	15:00	DomeF	591.2	-32.6	NE	7.6	1	⊕	10 -	10-Cs	†,↔
07 Dec. 1999	21:00	DomeF	591.7	-34.7	NE	6.3	2	⊕	10 -	1Ac;10-Cs	†
08 Dec. 1999	03:00	DomeF		-36.1		5.5					
08 Dec. 1999	08:00	DomeF	593.7	-32.5	NE	7.3	0.8	†	10	3Ac;10Cs	†
08 Dec. 1999	15:00	DomeF	593.4	-29.1	NNE	8.0	0.5	†	10	10As	†
08 Dec. 1999	21:00	DomeF	593.4	-32.0	NNE	4.1	8	⊙	10	9Ac;10As	†
09 Dec. 1999	03:00	DomeF		-34.7		1.7					
09 Dec. 1999	08:00	DomeF	595.3	-33.4	WNW	1.9	20	⊕	7	4Cc;3Ci	
09 Dec. 1999	15:00	DomeF	594.4	-28.7	NNW	2.9	30	⊕	10 -	0+Ac;9Cc;1Ci	
09 Dec. 1999	21:00	DomeF	594.5	-33.1	SW	0.8	30	⊕	9	4Cc;5Ci	
10 Dec. 1999	03:00	DomeF		-34.7		0.7					
10 Dec. 1999	08:00	DomeF	592.9	-34.6	W	1.1	20	⊕	10 -	0+Ac;10-Cs	
10 Dec. 1999	15:00	MD698	593.5	-26.3	NNW	2.8	30	⊕	10	0+Ac;10Cs	
10 Dec. 1999	21:00	MD676	593.6	-28.8	NNW	2.3	15	✕	10	1Ac;2As;10Cs	✕
11 Dec. 1999	03:00	MD676		-32.4		1.4					
11 Dec. 1999	08:00	MD676	590.4	-32.0	NNW	2.5	15	⊕	10	10Cs	
11 Dec. 1999	15:00	MD636	590.7	-28.7	NNW	5.0	30	⊕	10 -	1Ac;1Cc;10-Cs	↔

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
11 Dec. 1999	21:00	MD620	591.8	-35.5	W	1.6	20	⊕	10 -	0+Ac;4Cc;6Ci	↔
12 Dec. 1999	03:00	MD620		-37.4		1.8					
12 Dec. 1999	08:00	MD620	591.8	-38.5	W	1.0	30	○	1	0+Ac;1Ci	↔
12 Dec. 1999	15:00	MD620	592.5	-32.8	WNW	0.9	30	⊕	7	0+Ac;3Cc;4Ci	↔
12 Dec. 1999	21:00	MD620	592.2	-35.5	WSW	1.5	20	⊕	5	0+Ac;5Ci	↔
13 Dec. 1999	03:00	MD620		-36.1		1.8					
13 Dec. 1999	08:00	MD620	592.9	-39.0	WNW	2.0	20	⊕	3	0+Ac;1Cc;2Ci	↔
13 Dec. 1999	15:00	MD594	596.1	-31.5	NW	4.0	15	⊕	7	7Ac;0+Ci	↔
13 Dec. 1999	21:00	MD572	599.2	-37.7	NW	1.0	30	○	1	0+Ac;1Ci	↔
14 Dec. 1999	03:00	MD572		-33.3		0.6					
14 Dec. 1999	08:00	MD572	601.0	-37.1	SE	0.4	15	⊕	10 -	0+Ac;10-Cs	↔
14 Dec. 1999	15:00	MD542	605.4	-29.5	ESE	1.9	20	⊕	7	0+Ac;3Cc;4Ci	↔
14 Dec. 1999	21:00	MD522	609.0	-37.4	SSE	1.6	20	⊕	6	1Ac;2Cc;4Ci	↔
15 Dec. 1999	03:00	MD522		-41.0		3.9					
15 Dec. 1999	08:00	MD522	610.6	-35.8	ESE	5.6	8	⊕	10 -	3Cc;7Ci	⊕,↔
15 Dec. 1999	15:00	MD500	612.4	-30.6	E	5.1	20	○	0 +	0+Ac;0+Cc;0+Ci	↔
15 Dec. 1999	21:00	MD500	614.7	-36.6	ESE	2.7	20	⊕	10 -	0+Ac;2Cc;8Ci	
16 Dec. 1999	03:00	MD500		-39.5		2.9					
16 Dec. 1999	08:00	MD500	617.7	-34.8	ESE	4.5	8	⊕	10 -	10-Cs	⊕,↔
16 Dec. 1999	15:00	MD484	619.9	-29.6	ENE	5.6	8	⊕	10 -	10-Cs	⊕,↔
16 Dec. 1999	21:00	MD478	621.2	-34.6	ESE	3.3	10	⊕	7	0+Ac;1Cc;7Ci	↔
17 Dec. 1999	03:00	MD478		-39.3		3.9					
17 Dec. 1999	08:00	MD478	621.8	-35.0	ESE	5.9	6	⊕	7	7Ci	⊕,↔
17 Dec. 1999	15:00	MD478	620.2	-29.6	ESE	8.2	0.5	⊕	10 -	4Ac;1Cc;8Ci	⊕
17 Dec. 1999	21:00	MD478	619.7	-34.4	ESE	4.5	15	⊕	7	0+Ac;2Cc;5Ci	↔
18 Dec. 1999	03:00	MD478		-38.1		4.0					
18 Dec. 1999	08:00	MD478	620.7	-34.1	SE	6.2	5	○	1	1Ac;0+Ci	⊕,↔
18 Dec. 1999	15:00	MD438	624.4	-27.8	E	6.7	4	⊕	9	5Cc;4Ci	⊕,↔
18 Dec. 1999	21:00	MD418	628.3	-32.3	ESE	3.1	30	○	0 +	0+Ac;0+Ci	↔
19 Dec. 1999	03:00	MD418		-35.7		2.9					
19 Dec. 1999	08:00	MD418	628.8	-32.7	SSE	4.2	30	○	0 +	0+Ac;0+Ci	↔
19 Dec. 1999	15:00	MD380	635.6	-26.6	SE	5.0	30	○	0 +	0+Ac	
19 Dec. 1999	21:00	MD364	637.5	-31.4	SSE	3.2	30	○	0	-	
20 Dec. 1999	03:00	MD364		-35.9		4.3					
20 Dec. 1999	08:00	MD364	639.6	-31.7	SE	5.8	30	○	0 +	0+Ac;0+Ci	
20 Dec. 1999	15:00	MD364	640.4	-26.3	SE	6.6	30	○	0 +	0+Ac	⊕
20 Dec. 1999	21:00	MD364	640.7	-31.3	SE	3.6	30	○	0 +	0+Ac;0+Ci	
21 Dec. 1999	03:00	MD364		-35.5		4.3					
21 Dec. 1999	08:00	MD364	643.7	-31.2	SE	6.9	15	○	0 +	0+Ac;0+Ci	⊕
21 Dec. 1999	15:00	MD330	652.2	-24.0	SE	7.3	10	○	1	0+Cc;1Ci	⊕
21 Dec. 1999	21:00	MD312	656.2	-28.7	SE	4.8	30	○	0 +	0+Cc;0+Ci	
22 Dec. 1999	03:00	MD312		-32.4		6.7					
22 Dec. 1999	08:00	MD312	653.8	-27.8	SE	7.6	10	○	0 +	0+Ac;0+Ci	⊕
22 Dec. 1999	15:00	MD278	660.3	-21.8	ESE	8.5	5	○	0 +	0+Ac	⊕
22 Dec. 1999	21:00	MD260	661.8	-26.2	SE	5.5	20	○	0 +	0+Ac	⊕
23 Dec. 1999	03:00	MD260		-29.5		8.0					
23 Dec. 1999	08:00	MD260	658.3	-26.2	SE	9.0	1.2	○	0 +	0+Ac	⊕
23 Dec. 1999	15:00	MD226	665.6	-21.4	ESE	10.2	1	⊕	2	2Ci	⊕
23 Dec. 1999	21:00	MD222	666.1	-25.3	SE	5.8	20	○	1	0+Ac;1Ci	⊕
24 Dec. 1999	03:00	MD222		-29.6		5.6					
24 Dec. 1999	08:00	MD222	666.5	-26.6	SE	8.9	6	○	0 +	0+Ac;0+Ci	⊕
24 Dec. 1999	15:00	MD188	677.8	-21.1	ESE	6.7	10	○	0 +	0+Ac;0+Ci	⊕
24 Dec. 1999	21:00	MD172	686.6	-25.6	ESE	4.1	30	○	0 +	0+Ci	
25 Dec. 1999	03:00	MD172		-30.5		5.2					

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
25 Dec. 1999	08:00	MD172	690.7	-26.3	ESE	5.2	30	○	0 +	0+Ac	
25 Dec. 1999	15:00	MD144	698.6	-22.7	E	5.4	30	○	0 +	0+Ac	
25 Dec. 1999	21:00	MD128	704.2	-26.2	S	1.2	30	○	0 +	0+Ac;0+Ci	
26 Dec. 1999	03:00	MD128		-29.6		4.0					
26 Dec. 1999	08:00	MD128	703.9	-25.3	ESE	4.5	30	①	3	0+Ac;2Cc;1Ci	
26 Dec. 1999	15:00	MD96	710.7	-19.5	E	4.7	30	①	5	3Ac;2Ci	
26 Dec. 1999	21:00	MD78	718.3	-22.1	ESE	2.8	30	◎	10 -	10-Ac;XCi	
27 Dec. 1999	03:00	MD78		-22.8		2.2					
27 Dec. 1999	08:00	MD78	716.7	-19.7	ESE	3.7	15	◎	10	10Ac	
27 Dec. 1999	15:00	MD46		-16.2 *	SE	1.8	10	✱	10 -	2Sc;10-Ac	✱
27 Dec. 1999	21:00	MD32		-19.8 *	ESE	4.8	10	✱	10 -	8Sc;XAc	✱
28 Dec. 1999	03:00	MD32		-27.2		3.4					
28 Dec. 1999	08:00	MD32		-22.8 *	E	4.9	8	①	2	2Ac	→,↑
28 Dec. 1999	15:00	MD0	736	* -17.7 *	NE	3.9	30	◎	9	9Sc;0+Ac	
28 Dec. 1999	21:00	IM2	737	* -21.3 *	WNW	2.0	20	①	5	4Sc;0+Ac;1Ci	
29 Dec. 1999	03:00	IM2		-22.2		2.9					
29 Dec. 1999	08:00	IM2	738	* -21.9 *	ENE	3.6	15	①	6	0+Sc;2Ac;1Cc;4Ci	
29 Dec. 1999	15:00	IM2	738	* -17.8 *	E	5.9	10	①	10 -	0+Sc;0+Ac;8Cs;2Ci	
29 Dec. 1999	21:00	IM2	733.7	-22.4	ESE	4.5	20	①	10 -	0+Sc;0+Ac;10-Cs;0+Cc	
30 Dec. 1999	03:00	IM2		-25.2		7.4					
30 Dec. 1999	08:00	IM2	734.5	-22.0	E	8.4	6	①	7	0+Ac;7Cs	↑
30 Dec. 1999	15:00	YM13	738.8	-17.6	ENE	6.9	10	①	9	0+Ac;0+Cc;7Cs;2Ci	↑
30 Dec. 1999	21:00	YM15	738.8	-22.4	ESE	4.0	20	①	10 -	0+Ac;1Cc;10-Cs	
31 Dec. 1999	03:00	YM15		-26.1		5.9					
31 Dec. 1999	08:00	YM15	741.5	-19.5	E	4.5	20	①	7	0+Sc;1Ac;0+Cc;7Ci	
31 Dec. 1999	15:00	YM30	745.2	-16.2	ENE	5.0	20	①	10 -	4Sc;10-Cs	
31 Dec. 1999	21:00	YM30	745.0	-21.6	ESE	2.8	30	①	10 -	0+Sc;0+Ac;0+Cc;7Cs;3Ci	
01 Jan. 2000	03:00	YM30		-25.2		5.3					
01 Jan. 2000	08:00	YM30	743.1	-20.9	E	6.2	20	①	9	3Cc;6Ci	↑
01 Jan. 2000	15:00	YM30	739.3	-17.1	ESE	8.0	15	①	2	0+Ac;2Ci	↑
01 Jan. 2000	21:00	YM30	737.7	-20.8	ESE	6.5	20	○	0 +	0+Ci	↑
02 Jan. 2000	03:00	YM30		-24.6		6.8					
02 Jan. 2000	08:00	YM30	736.7	-19.7	E	5.2	20	①	10 -	3Ac;1Cc;1Ci;7Cs	
02 Jan. 2000	15:00	YM45	727.5	-16.7	E	4.6	30	①	7	0+Ac;2Ci;5Cs	
02 Jan. 2000	21:00	YM50	728.9	-22.2	ESE	2.7	30	①	7	0+Ac;2Ci;5Cs	
03 Jan. 2000	03:00	YM50		-27.5		4.5					
03 Jan. 2000	08:00	YM50	726.9	-22.4	E	4.7	20	①	10 -	0+Ac;1Cc;10-Cs	
03 Jan. 2000	15:00	YM65	729.3	-17.1	ENE	5.1	20	◎	10 -	9Sc;XAc;XCi	
03 Jan. 2000	21:00	YM70	729.9	-19.3	E	3.7	20	✱	10 -	10-Sc;XAc	✱
04 Jan. 2000	03:00	YM70		-20.9		2.7					
04 Jan. 2000	08:00	YM70	731.2	-19.6	E	6.6	6	✱	10	10Sc	✱
04 Jan. 2000	15:00	YM80	729.6	-17.8	ENE	5.1	6	✱	10	10Sc	✱
04 Jan. 2000	21:00	YM85	732.7	-19.2	N	1.9	15	✱	10	8Sc;10Ac	✱
05 Jan. 2000	03:00	YM85		-19.5		2.1					
05 Jan. 2000	08:00	YM85	735.3	-19.3	E	3.1	5	✱	10 -	10-Sc;XCi	✱
05 Jan. 2000	15:00	YM94	733.1	-17.0	ENE	4.0	20	◎	10 -	4Sc;10-Ac;XCi	
05 Jan. 2000	21:00	YM100	734.5	-22.7	SE	3.5	30	○	1	0+Sc;0+Ac;1Ci	
06 Jan. 2000	03:00	YM100		-27.1		5.2					
06 Jan. 2000	08:00	YM100	733.1	-24.1	SE	6.8	15	①	5	5Ci	↑
06 Jan. 2000	15:00	YM114	730.2	-18.1	E	5.3	20	①	9	9Ci	↑
06 Jan. 2000	21:00	YM120	727.5	-22.1	SE	4.6	30	①	5	0+Ac;2Cc;3Ci	
07 Jan. 2000	03:00	YM120		-26.1		6.5					
07 Jan. 2000	08:00	YM120	726.8	-22.5	SE	6.5	15	◎	10 -	10-Ac	
07 Jan. 2000	15:00	YM134	722.4	-17.9	ENE	5.1	20	①	8	3Sc;1Ac;0+Cc;7Ci	

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
07 Jan. 2000	21:00	YM140	721.9	-20.4	E	3.7	15	✕	10	4Sc;10Ac	✕
08 Jan. 2000	03:00	YM140		-26.8		2.2					
08 Jan. 2000	08:00	YM140	724.7	-22.3	SE	3.5	20	⊕	10 -	0+Cc;10-Cs	
08 Jan. 2000	15:20	YM154	721.3	-18.3	ENE	2.2	15	✕	6	0+Sc;2Ac;2Cc;6Ci	✕
08 Jan. 2000	21:00	YM154	722.3	-19.5	E	3.3	10	✕	10 -	10-Sc;XAc;XCi	✕
09 Jan. 2000	03:00	YM154		-23.6		3.0					
09 Jan. 2000	08:00	YM154	725.9	-20.8	ESE	6.7	5	✕	10 -	7Sc;10-Ci	✚
09 Jan. 2000	15:00	YM154	725.9	-16.8	E	10.4	0.3	✕	10	3✚;XCc;XCc	✚
09 Jan. 2000	21:00	YM154	723.2	-20.4	E	11.0	0.15	✕	10	10✚	✚
10 Jan. 2000	03:00	YM154		-23.7		12.4					
10 Jan. 2000	08:00	YM154	718.0	-22.2	ESE	14.5	0.1	✕	10	5✚;XCc	✚
10 Jan. 2000	15:00	YM154	712.4	-17.8	E	15.0	0.02	✕	10	10✚	✚
10 Jan. 2000	21:00	YM154	711.6	-16.7	E	7.1	0.5	✕	10	3✚;XCc	✚
11 Jan. 2000	03:00	YM154		-18.7		5.9					
11 Jan. 2000	08:00	YM154	711.8	-16.5	E	8.1	0.15	✕	10	10✚	✚
11 Jan. 2000	15:00	YM154	710.6	-14.0	E	9.5	0.3	✕	10	4✚;XCc	✚
11 Jan. 2000	21:00	YM154	708.9	-14.7	E	6.3	1	✕	10	10As	✚
12 Jan. 2000	03:00	YM154		-15.6		7.7					
12 Jan. 2000	08:00	YM154	712.1	-16.3	E	9.7	0.2	✕	10	4✚;XCc	✚
12 Jan. 2000	15:00	YM154	715.8	-15.6	ENE	8.3	0.3	✚	7	1Sc;0+Ac;4Cc;6Ci	✚
12 Jan. 2000	21:00	YM154	717.7	-16.4	E	8.5	1	⊙	10 -	9Sc;XAc;XCi	✚
13 Jan. 2000	03:00	YM154		-20.0		11.1					
13 Jan. 2000	08:00	YM154	718.0	-18.7	E	12.8	0.1	✚	10 -	10-✚;XAc	✚
13 Jan. 2000	15:00	YM154	717.3	-14.6	E	12.2	0.1	✚	10 -	10-✚	✚
13 Jan. 2000	21:00	YM154	716.9	-17.2	E	11.3	0.2	✚	9	9Ac;XCc	✚
14 Jan. 2000	03:00	YM154		-19.9		11.5					
14 Jan. 2000	08:00	YM154	716.3	-18.2	E	12.2	0.15	✚	3	1Ac;0+Cc;3Ci	✚
14 Jan. 2000	15:00	YM139	721.3	-15.5	E	12.1	0.4	✚	8	1Sc;4Cc;4Ci	✚
14 Jan. 2000	21:00	YM129	724.2	-18.2	ESE	9.0	5	⊕	9	0+Ac;0+Cc;6Cs;3Ci	✚
15 Jan. 2000	03:00	YM129		-22.7		11.7					
15 Jan. 2000	08:00	YM129	720.9	-21.7	ESE	13.7	0.15	✚	1	1Ci	✚
15 Jan. 2000	15:00	YM116	722.6	-18.3	ESE	15.1	0.05	✚	3	3✚	✚
15 Jan. 2000	21:00	YM112	724.8	-21.9	ESE	10.9	1	⊕	5	0+Sc;0+Ac;4Cc;1Ci	✚
16 Jan. 2000	03:00	YM112		-25.1		9.7					
16 Jan. 2000	08:00	YM112	728.7	-22.2	ESE	10.7	1	⊙	10 -	10-Ac;XCi	✚
16 Jan. 2000	15:00	YM92	729.5	-18.3	E	9.8	1.5	⊕	7	0+Ac;2Cc;5Ci	✚
16 Jan. 2000	21:00	YM84	732.5	-19.9	ESE	9.3	8	⊕	9	0+Ac;9Cs	✚
17 Jan. 2000	03:00	YM84		-22.5		10.7					
17 Jan. 2000	08:00	YM84	734.6	-20.8	ESE	12.2	0.4	✚	10 -	1Ac;10-Ci	✚
17 Jan. 2000	15:00	YM67	735.1	-15.5	E	10.3	1.5	⊕	10 -	10-Cs	✚
17 Jan. 2000	21:00	YM60	731.0	-20.4	ESE	7.3	15	⊕	4	1Ac;3Cc;1Ci	✚
18 Jan. 2000	03:00	YM60		-22.6		10.8					
18 Jan. 2000	08:00	YM60	730.4	-21.6	ESE	10.3	1.2	⊕	2	1Ac;2Ci	✚
18 Jan. 2000	15:00	YM60	731.8	-14.6	E	9.6	5	⊙	10 -	1Sc;9Ac;XCi	✚
18 Jan. 2000	21:00	YM60	736.1	-16.3	E	6.8	3	✕	10	3Sc;10Ac	✚
19 Jan. 2000	03:00	YM60		-20.1		7.4					
19 Jan. 2000	08:00	YM60	742.6	-19.6	ESE	8.4	1.5	⊕	10 -	1Ac;10-Cs	✚
19 Jan. 2000	15:00	CF22	731.5	-16.9	ESE	7.1	15	⊕	5	0+Ac;1Cc;4Ci	✚
19 Jan. 2000	21:00	CF40	722.5	-22.1	SE	5.7	30	○	0 +	0+Ac;0+Ci	
20 Jan. 2000	03:00	CF40		-27.4		8.5					
20 Jan. 2000	08:00	CF40	721.1	-24.5	ESE	8.0	10	○	0 +	0+Ac;0+Ci	✚
20 Jan. 2000	15:00	CF62	709.3	-18.8	ESE	9.3	10	○	0 +	0+Ci	✚
20 Jan. 2000	21:00	CF80	700.8	-23.7	SE	7.1	20	○	0 +	0+Ci	✚
21 Jan. 2000	03:00	CF80		-28.4		10.1					

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
21 Jan. 2000	08:00	CF80	700.2	-26.0	SE	9.8	1.5	○	0	-	+
21 Jan. 2000	15:00	CF80	698.9	-20.9	ESE	9.0	3	○	0	-	+
21 Jan. 2000	21:00	CF80	699.3	-26.2	ESE	6.5	20	○	0	-	+
22 Jan. 2000	03:00	CF80		-31.1		7.8					
22 Jan. 2000	08:00	CF80	701.3	-26.3	ESE	8.4	8	⊕	8	8Ac	+
22 Jan. 2000	15:00	CF102	691.0	-22.7	E	7.1	10	✱	10	- 10-Ac	✱, +
22 Jan. 2000	21:00	CF120	685.7	-25.8	ESE	6.5	15	✱	10	- 10-Ac	✱, +
23 Jan. 2000	03:00	CF120		-31.4		7.5					
23 Jan. 2000	08:00	CF120	686.0	-29.7	ESE	8.2	10	○	0	+ 0+Ac;0+Ci	+
23 Jan. 2000	15:00	CF146	674.3	-25.0	ESE	9.4	1.5	○	0	+ 0+Ac	+
23 Jan. 2000	21:00	CF162	669.1	-28.6	ESE	5.7	20	⊕	6	6Ac	
24 Jan. 2000	03:00	CF162		-31.1		5.6					
24 Jan. 2000	08:00	CF162	669.7	-27.1	E	6.3	20	○	1	1Ac	
24 Jan. 2000	15:00	MD240	666.3	-20.9	E	9.3	0.8	+	3	1Cc;3Ci	+
24 Jan. 2000	21:00	MD240	666.8	-25.4	ESE	5.8	20	⊕	7	0+Cc;7Ci	
25 Jan. 2000	03:00	MD240		-30.8		6.7					
25 Jan. 2000	08:00	MD240	668.6	-27.9	ESE	7.3	8	⊕	7	5Cc;2Ci	+
25 Jan. 2000	15:00	MD208	677.3	-21.2	E	7.6	10	⊕	7	7Ci	+
25 Jan. 2000	21:00	MD192	681.2	-24.3	ESE	7.6	10	⊕	10	- 3Ac;10-Ci	+
26 Jan. 2000	03:00	MD192		-26.4		8.7					
26 Jan. 2000	08:00	MD192	683.2	-24.9	E	9.2	0.8	+	10	- 10-Cs	+
26 Jan. 2000	15:00	MD164	691.7	-18.9	E	9.4	5	⊕	4	0+Ac;4Ci	+
26 Jan. 2000	21:00	MD150	695.5	-21.8	ESE	7.6	20	⊕	8	3Ac;8Ci	+
27 Jan. 2000	03:00	MD150		-30.4		9.9					
27 Jan. 2000	08:00	MD150	696.2	-27.6	ESE	10.4	3	○	1	1Ci	+
27 Jan. 2000	15:00	MD150	694.1	-21.0	ESE	9.5	8	○	0	+ 0+Ci	+
27 Jan. 2000	21:00	MD150	693.6	-27.0	SE	4.6	30	○	0	+ 0+Ac	
28 Jan. 2000	03:00	MD150		-32.1		7.2					
28 Jan. 2000	08:00	MD150	692.9	-28.7	ESE	8.5	20	○	1	1Ci	+
28 Jan. 2000	15:00	MD116	701.8	-22.6	E	5.1	30	○	0	+ 0+Ac;0+Ci	
28 Jan. 2000	21:00	MD96	706.4	-27.9	ESE	3.2	30	○	1	0+Ac;1Cc;0+Ci	
29 Jan. 2000	03:00	MD96		-32.6		4.9					
29 Jan. 2000	08:00	MD96	708.4	-28.2	E	5.3	15	⊕	2	1Ac;1Ci	→
29 Jan. 2000	15:00	MD64	718.4	-20.0	NE	3.7	20	⊕	7	0+Sc;0+Ac;1Cc;6Ci	
29 Jan. 2000	21:00	MD44	724.3	-25.4	E	2.8	15	✱	10	- 2Sc;1Ac;10-Ci	✱
30 Jan. 2000	03:00	MD44		-32.9		4.4					
30 Jan. 2000	08:00	MD44	726.1	-29.5	ESE	5.0	30	○	1	0+Sc;1Ac;0+Ci	
30 Jan. 2000	15:00	MD6	736.1	-20.4	E	4 *	30	⊕	2	2Ac	
30 Jan. 2000	21:00	IM1	738.8	-27.5	SE	3.4	30	○	0	+ 0+Ac	
31 Jan. 2000	03:00	IM1		-34.5		4.8					
31 Jan. 2000	08:00	IM1	743.1	-29.9	ESE	4.5	30	○	0	+ 0+Ac	
31 Jan. 2000	15:00	IM1	744.5	-20.5	ESE	4.9	30	○	0	+ 0+Ci	
31 Jan. 2000	21:00	Z94	751.9	-25.9	E	8.1	15	⊕	2	2Ci	+
01 Feb. 2000	03:00	Z94		-29.5		11.5					
01 Feb. 2000	08:00	Z94	754.5	-24.3	E	11.9	0.4	+	7	1Cc;6Ci	+
01 Feb. 2000	15:00	Z46	762.0	-16.8	E	11.4	0.5	+	10	- 1Ac;10-Cs	+
01 Feb. 2000	21:00	Z21	770.7	-19.4	E	12.9	0.4	+	10	- 1Ac;1Cc;10-Cs	+
02 Feb. 2000	03:00	Z21		-25.1		14.0					
02 Feb. 2000	08:00	Z21	768.8	-21.3	E	15.4	0.15	+	2	2Ci	+
02 Feb. 2000	15:00	H290	780.5	-15.4	ESE	13.7	0.15	+	0	+ 0+Ac	+
02 Feb. 2000	21:00	H244	792.6	-18.6	ESE	11.9	0.8	+	0	+ 0+Ac	+
03 Feb. 2000	03:00	H244		-22.5		12.6					
03 Feb. 2000	08:00	H244	790.4	-18.7	E	10.2	1.5	○	0	-	+
03 Feb. 2000	15:00	H192	803.0	-13.8	E	9.4	6	⊕	2	2Cu	+

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	AP
03 Feb. 2000	21:00	H136	820.3	-17.0	E	7.0	20	○	1	0+Sc;1Ac	+
04 Feb. 2000	03:00	H136		-20.7		8.2					
04 Feb. 2000	08:00	H136	823.5	-17.6	E	9.9	2	○	0 +	0+Sc;0+Ac;0+Ci	+
04 Feb. 2000	15:00	H21	859.6	-10.1	ENE	7.6	0.8	✕	10	10As	+
04 Feb. 2000	21:00	H3	863.5	-10.8	ENE	9.1	0.2	✕	10 -	10-Sc	+
05 Feb. 2000	03:00	H3		-11.9		11.1					
05 Feb. 2000	08:00	S30	866	* -10.3 *	E	8 *	1.2	◎	10 -	1Sc;10-Ac	+
05 Feb. 2000	15:00	S30	863	* -7.1 *	E	9 *	15	⊕	10 -	0+Cu;0+Ac;1Cc;10-Cs	
05 Feb. 2000	21:00	S30	853.1	-11.7	ESE	7.1	30	⊕	10 -	0+Sc;0+Ac;3Cc;10-Ci	
06 Feb. 2000	03:00	S30		-11.4		11.7					
06 Feb. 2000	08:00	S30	851.0	-9.6	E	14.5	20	①	7	0+Sc;4Ac;1Cc;7Ci	
06 Feb. 2000	15:00	S18	900	* -4.5 *	E	16 *	0.2	+	3	1Sc;1Ac;2Ci	+
06 Feb. 2000	21:00	S18	898.5	-5.9	ENE	14.8	0.2	+	3	0+Sc;1Ac;1Cc;1Ci	+
07 Feb. 2000	03:00	S18		-6.7		8.2					
07 Feb. 2000	08:00	S18	907.6	-5.7	ENE	9.4	0.3	+	10 -	5Ac;10-Ci	+
07 Feb. 2000	15:20	S16	917	* -4.7 *	ENE	10 *	0.6	+	10 -	3Ac;10-Ci	+
07 Feb. 2000	21:00	S16	915.0	-7.2	ENE	8.7	1.5	◎	10 -	3Sc;7Ac;10-Ci	+
08 Feb. 2000	03:00	S16		-11.1		6.3					
08 Feb. 2000	08:00	S16	915	* -11.5 *	ESE	6 *	30	①	2	0+Sc;2Ac	
08 Feb. 2000	15:00	S16	914	* -4.3 *	SSW	1 *	20	○	0 +	0+Sc;0+Ac;0+Ci	
08 Feb. 2000	21:00	S16	914	* -12.9 *	ESE	4 *	15	①	3	3Sc;0+Ac	
09 Feb. 2000	03:00	S16									
09 Feb. 2000	08:00	S16	917	* -8.5 *	NNE	5 *	8	✕	10	0+St;10Sc	✕
09 Feb. 2000	15:00	S16	919	* -8.1 *	NE	9 *	1	✕	10	10Sc	✕
09 Feb. 2000	21:00	S16	919	* -8.1 *	NE	10 *	0.7	✕	10	10Sc	+
10 Feb. 2000	03:00	S16									
10 Feb. 2000	08:00	S16	916	* -7.1 *	NE	12 *	0.5	✕	10	10Sc	+
10 Feb. 2000	15:00	S16	916	* -7.3 *	NNE	10 *	1	✕	10	10Sc	+
10 Feb. 2000	21:00	S16	919	* -8.5 *	NE	7 *	8	◎	10	0+St;10Sc	+